

CAPITAL
Development
BOARD

Building a Better Illinois

Bruce Rauner, Governor James Reilly, Chairman

BOARD BOOK

June 9, 2015

11:00 a.m.

Video-Conference between:

James R. Thompson Center
100 West Randolph Street, Suite 14-600
Chicago, Illinois

Illinois Dept. of Transportation
1102 East Port Plaza
Collinsville, Illinois

Robert Oxtoby Board Room
Wm. G. Stratton Office Building
401 S. Spring St., 3rd Floor
Springfield, Illinois

BOARD MEMBERS:

James Reilly, Chairman
Peter O'Brien, Sr.
Glyn Ramage
Stewart Muñoz
Miles Beatty, III
William A. Lowry, Sr.
Steve Orlando

Gus Behnke, Acting Executive Director



CAPITAL DEVELOPMENT BOARD

June 9, 2015, 11:00 a.m.

Video-Conference

between

the following three locations:

James R. Thompson Center
100 West Randolph Street
Suite 14-600
Chicago, Illinois

Robert Oxtoby Board Room
3rd Floor Stratton Building
401 S. Spring Street
Springfield, Illinois

IDOT Office
1102 East Port Plaza
Collinsville, Illinois

1. **CALL TO ORDER**
2. Roll Call of Members
3. Confirmation of a Quorum

PRELIMINARY ITEMS

4. Adoption of Agenda
5. Approval of May 12, 2015 Minutes 1-7
6. Approval of May 12, 2015 Executive Session Minutes
7. Introduction of Guests

BOARD ACTION

8. Proceed Orders
 - Lincoln's Challenge Academy.....8-12
 - University of Illinois at Chicago13-16
9. Change Orders
 - University of Illinois at Chicago17-25
10. Staff Recommendations for Architect/Engineer Selections
 - PSB 20826-28
11. Proposed Rule Change - Illinois Energy Conservation Code29-67

INFORMATIONAL ITEM

12. Director's Architect/Engineer Selection68-69

EXECUTIVE SESSION

13. Pending Litigation (5 ILCS 120/2(c)(11))
14. Personnel Issues (5 ILCS 120/2(c)(1))

Staff contact: Amber Evans, 217.782.8726

SUBJECT: Meeting Minutes for May 12, 2015 Board Meeting

The May 12, 2015 meeting of the Capital Development Board was held by video-conference at the James R. Thompson Center, 100 West Randolph Street, Suite 14-600, Chicago, Illinois, the Stratton Office Building, 401 South Spring Street, Third Floor, Springfield, Illinois and the Illinois Department of Transportation Office, 1102 East Port Plaza, Collinsville, Illinois.

The following Board Members were present:

Chicago

Jim Reilly, Chairman
Peter O'Brien, Sr.
Stewart Muñoz
Miles Beatty, III
William Lowry, Sr.
Steve Orlando

Others present:

Chicago

Karla Springer, CDB
Andrea Bauer, CDB
Gus Behnke, CDB
Amy Romano, CDB
Jesse Martinez, CDB
James Cockrell, CDB
Tracy Waugh, Level 1
Aram Garbooshian, RADA Architects
Mike Wilson, CDB
Rada Doytcheva, RADA Architects
Adrienne Levatino, CDB
Pete Nuttleon, Inspec, Inc.
Dave Foler, Inspec, Inc.
Colleen Shuber, Inspec, Inc.
Hemant Shah, NEIU
Nancy Medina, NEIU
Wayne Watson, CSU
Don Broughton, CDB
Chima Uwanamodo, CDB
Abdulgaffar Shedbalkar, CDB
Jodi Golden, CDB
Traci Stokes, CSU
Satasha Green, CSU
Tracy Obershan, CSU
Leonard McGee, CDB
Ron Wright, CDB

Springfield

Amber Evans, CDB
Chris MacGibbon, CDB
Candy Murphy, CDB
Dennis Barnard, CDB
Kirk Fernandes, CDB
Paula Sorensen, CDB
Ken Morris, CPO
Jerry Burlingham, CPO
John Renken, SIU-E
Lorraine Logan, Hastings & Chivetta
Terry Phelan, CDB
Kathryn Martin, CDB
Lorri Lawton, CPO
Steve Heaberlin, CDB
Van Austin, CPO
Claudia André, CDB
Lauren Noll, CDB
Brent Lance, Hurst-Rosche
Marcy Joerger, CDB
Lisa Mattingly, CDB
Joseph Vitowsky, U of I
Trevor Parnell, CDB

Collinsville

Kate Evans, Artisan Consulting Eng.

The meeting was called to order at 10:41 a.m.

Ms. Amy Romano, CDB General Counsel, swore-in Mr. James “Jim” Reilly as Chairman of the Capital Development Board.

Ms. Romano swore-in Mr. Steven Orlando as a member of the Capital Development Board.

Amber Evans took roll call. For the record, Chairman Reilly and members Peter O’Brien, Stewart Muñoz, Miles Beatty, William Lowry and Steve Orlando were present at the Chicago meeting site.

Mr. O’Brien moved and Mr. Lowry seconded a motion for the adoption of the agenda. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Beatty moved and Mr. Muñoz seconded a motion to approve the minutes of the April 14, 2015 meeting. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Beatty moved and Mr. O’Brien seconded a motion to approve the executive session minutes of the April 14, 2015 meeting. Chairman Reilly called for a vote, and the motion was approved unanimously.

All attendees and guests in Springfield, Chicago and Collinsville introduced themselves to the Board.

Mr. Ron Wright presented the following Proceed Order and introduced Mr. David Foler with Inspec, Inc. who further explained the project and answered questions from Board members:

Proceed Order – Northeastern Illinois University

Replace Roofing Systems and Repair Walls

Physical Education Building

Chicago, Cook County, Illinois

CDB Project No. 817-010-076

A/E: Inspec, Inc. of Illinois

Proceed Order G-02.....\$290,000.00

Mr. O’Brien moved and Mr. Lowry seconded a motion to approve the Proceed Order. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Wright presented the following Change Order:

Change Order – University of Illinois at Champaign/Urbana

Construct Electrical and Computer Engineering Building

Urbana, Champaign County, Illinois

CDB Project No. 830-010-331

A/E: SmithGroupJJR

Change Order G-151R3 \$122,845.15

Mr. Beatty moved and Mr. Muñoz seconded a motion to approve the Change Order. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Wright presented the following Change Order:

Change Order – Southern Illinois University - Edwardsville

Old Science Building Renovation

Edwardsville, Madison County, Illinois

CDB Project No. 825-030-067 (709)

A/E: Hastings + Chivetta Architects, Inc.

Change Order G-14..... \$313,944.13

Mr. O'Brien moved and Mr. Muñoz seconded a motion to approve the Change Order. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Wright presented the following Modification:

Modification – University of Illinois at Chicago

College of Dentistry Infrastructure Improvements

Chicago, Cook County, Illinois

CDB Project No. 830-030-154

A/E: Millhouse Engineering and Construction, Inc.

Modification No. 1 \$129,799.00

Mr. Beatty moved and Mr. O'Brien seconded a motion to approve the Modification. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Wright presented the following Modification and introduced Ms. Rada Doytcheva with RADA Architects who further explained the project:

Modification – Chicago State University

Renovate/Construct Child Care Center - Education Building

Chicago, Cook County, Illinois

CDB Project No. 814-010-078

A/E: RADA Architects, Ltd.

Modification No. 2..... \$296,060.00

Mr. O'Brien moved and Mr. Muñoz seconded a motion to approve the Modification. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. James Cockrell presented the following A/E selection recommendation:

1.	102-412-020	DEPARTMENT OF NATURAL RESOURCES Construct Pump and Dewatering Station Godar Refuge Mississippi State Fish and Wildlife Area Calhoun and Jersey Counties, Illinois 1. Horner & Shifrin, Inc. 2. Artisan Consulting Engineers, LLC 3. Hurst-Rosche Engineers, Inc.	Appropriation: \$250,000 Project Cost: \$250,000
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Mr. Beatty moved and Mr. Muñoz seconded a motion to approve the previous recommendation for the selection of architects/engineers. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Cockrell presented the following A/E selection recommendation:

2.	102-432-026	DEPARTMENT OF NATURAL RESOURCES Replace Fish Hatchery Power and Control Systems Jake Wolf Memorial Hatchery Mason County, Illinois 1. HDR Engineering, Inc. 2. Henneman Engineering, Inc. 3. Horner & Shifrin, Inc.	Appropriation: \$1,300,000 Project Cost: \$1,300,000
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Mr. Beatty moved and Mr. Lowry seconded a motion to approve the previous recommendation for the selection of architects/engineers. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Cockrell noted the following Best Interest of the State Architect/Engineer selection as an informational item:

1.	102-220-049	DEPARTMENT OF NATURAL RESOURCES Repair Erosion at Bureau Creek Hennepin Canal Parkway State Park Bureau and Henry Counties, Illinois	Project Cost: \$450,000
FIRM SELECTED: Willett, Hofmann & Associates			

Mr. Cockrell noted the following Architects/Engineers selected by the Executive Director as informational items:

1.	102-252-023	DEPARTMENT OF NATURAL RESOURCES Replace Forested Wetland Pump Woodford County Conservation Area Chillicothe, Illinois	Project Cost: \$210,000
FIRM SELECTED: Dewberry Architects, Inc.			

2.	120-175-134	DEPARTMENT OF NATURAL RESOURCES Replace Roofing Systems Menard Correctional Center Randolph County, Illinois	Project Cost: \$140,000
FIRM SELECTED: Baysinger Design Group, Inc.			

3.	291-100-019	DEPARTMENT OF STATE POLICE Replace Roofing System - Headquarters Joliet District 5, Will County, Illinois	Project Cost: \$60,000
FIRM SELECTED: Taylor Made Design, Inc.			

Chairman Reilly presented the proposed FY16 CDB Board Meeting Schedule for Board approval:

FY16 CDB PROPOSED BOARD MEETING SCHEDULE		
DATE	TIME	LOCATION
July 14, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
August 11, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
September 8, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
October 13, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
November 10, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
December 8, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
January 12, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
February 9, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
March 8, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
April 12, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
May 10, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
June 14, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference

Mr. Muñoz moved and Mr. Lowry seconded a motion to approve the proposed FY16 Board Meeting Schedule. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Muñoz moved and Mr. Lowry seconded a motion to move to Executive Session for the purpose of discussing personnel issues. Chairman Reilly called for a vote, and the motion was approved unanimously.

Executive Session was convened. One item of business was discussed.

Mr. Beatty moved and Mr. Lowry seconded a motion to return to open session. Chairman Reilly called for a vote, and the motion was approved unanimously.

Regular session was reconvened at 11:57 a.m.

Mr. O'Brien moved and Mr. Lowry seconded a motion to approve Resolution No. 15-01, as discussed in executive session. Chairman Reilly called for a vote, and the motion was approved unanimously.

Mr. Beatty moved and Mr. Lowry seconded a motion to adjourn. Chairman Reilly called for a vote, and the motion was approved unanimously. The meeting adjourned at 11:58 a.m.

Executive Summary for Board Level Proceed Order

CDB Project No. 546-282-003
Project Description: Capital Improvements
Project Location: Lincoln's Challenge Academy
Rantoul, Champaign County, Illinois

Project History:

Lincoln's Challenge Academy currently operates out of various buildings on the former Chanute Air Force Base in Rantoul, IL. This project involves construction of approx. 132,000 square feet of new space to replace the old structures currently being used by Lincoln's Challenge Academy (LCA). Asbestos abatement and demolition of existing buildings preceded construction and will also occur again at the end of the project once the new buildings are substantially complete and the current Administration/Housing building is vacated.

Three new and separate buildings are currently under construction:

1. 17,000 square-foot Education Building
2. 89,000 square-foot Administration/Housing Building
3. 26,000 square-foot Gymnasium/Logistics Building.

Requested Action:

Due to budgetary constraints, a storage building could not be designed or constructed per the original project scope (design phase). Lincoln's Challenge Academy (LCA) recently received additional Federal funds which can be used to help facilitate capital improvements at the facility. LCA has requested that CDB contract for the construction of a new pre-engineered metal building under the current project to fulfill the original scope and address the storage requirements for the new facilities. The Federal funds will lapse at the end of Fiscal 2015 and must be obligated by June 30, 2015. Final approval and processing of this proceed order will allow the Department of Military Affairs (DMA) to obligate the funds under FY15 as required. It will also allow for procurement of materials and construction so that site improvements for the new building may be coordinated with the ongoing/current construction.

We are requesting approval of Proceed Order No. G-37 in the not-to-exceed amount of \$250,000.00 for the construction of the pre-engineered metal building as detailed in the RFP/CO (change order) No. G-37, which is included in the backup to the proceed order.

Project Number: 546-282-003	Using Agency: Department of Military Affairs
Description: Capital Improvements Lincoln's Challenge Academy Rantoul, IL 61866	Architect/Engineer: Ratio Architects, Inc. 301 N. Neil Street, Suite 102 Champaign, IL 61820
Total Project Budget: \$38,540,260.00	
Unobligated Funds: \$2,233,633.44	
Percent Completion: 37%	Project Manager: Steve Halm

Reason for Change:

The Lincoln's Challenge Academy (LCA) recently received a \$1,000,000 Federal grant to supplement their budget. They have identified a portion of this grant to address capital improvement needs previously included in the project scope but eliminated due to budgetary limitations. LCA and the Department of Military Affairs (DMA) have requested that CDB contract for the construction of an approximate 1,300 square-foot storage building to fulfill the storage needs for the new facilities. The grant funds will expire at the end of Fiscal year 2015 and therefore must be obligated by June 30, 2015.

Description of Change:

Construction of a 26' x 50' pre-engineered storage building. The building is to have a concrete floor slab, overhead door, two man doors, caged storage, mechanical/electrical and site/utility improvements as needed to support the new construction.

CONTRACTOR	Trade	Proceed Order Amount	Original Contract	% CHANGE
River City Construction Co	General	\$ 250,000.00	\$ 32,025,000.00	.78%
Total All Change Orders		\$ 250,000.00	\$ 32,025,000.00	.78%

Completion Effect: 0 days

PROCEED ORDER NO. G-37

CDB PROJECT NO.: 546-282-003

CONTRACT NO.: 14-0646-81

DATE: 5-21-15

CONTRACTOR (Name, Address)
River City Construction Company
101 Hoffer Lane
East Peoria, IL 61611

PROJECT (Name, City, County)
Capital Improvements
Lincoln's Challenge Academy
Rantoul, IL

Contract Work: General

Using Agency: DMA

DESCRIPTION OF CHANGE IN WORK: Construct pre-engineered metal storage building. Scope of work as described in RFP C/O G-37. NTE costs per River City Const proposal dated 5-21-15.

Justification for the proceed order: Lapsing Federal funds must be obligated by June 30, 2015. Work must proceed as soon as reasonably possible so that site improvements may be coordinated with the ongoing construction.

TOTAL \$ VALUE OF THIS ORDER NOT TO EXCEED: \$ 250,000.00

Contractor Representative's Signature [Signature]

Costs for work involved and change in Sum and Time (if any) will be submitted for inclusion in a RFP/CO adjusting the Contract Sum and/or Contract Time subject to the CDB procedures for processing contract changes as outlined in the Capital Development Board's Standard Documents for Construction. Approval and issuance of this document does not eliminate the requirement for the subsequent RFP/CO to be reviewed and approved by CDB to determine it to be fair and reasonable.

Authorization to Proceed by:

[Signature] 5/21/15
Department of Military Affairs Date

My review of this change order has determined that: the circumstances which have necessitated this change order were not reasonably foreseeable at the time the contract was signed, or the change is germane to the original contract as signed, or the change order is in the best interest of the State and authorized by law, as described. (Applicable only to a change order or a series of change orders increasing or decreasing the contract amount more than \$10,000.00 or the contract time by more than 30 days.)

(Up to \$9,999)

[Signature] 5-21-15
Project Manager Date

(Up to \$24,999)

[Signature] 05.21.15
Regional Manager Date

(Up to \$49,999)

[Signature] 5/27/15
Construction Administrator Date

(Up to \$74,999)

Vacant
Deputy Director - Construction Date

(Up to \$100,000)
If Board Level insert
Agenda Item No. _____

Executive Director Date _____
and Board Meeting Date _____



April 1, 2015

SUBJECT: Using Agency Request for Storage Shed, Lincoln's Challenge Academy –
CDB #546-282-003

Mr. Steve Halm
Capital Development Board
IDOT District #3 Headquarters, 2nd Floor
700 East Norris Drive
Ottawa, IL 61350

Dear Mr. Halm:

Recently, the Lincoln's Challenge Academy (LCA) received a \$1,000,000 grant from the federal government to supplement their budget. Of this money, approximately \$250,000 has been identified to address building capital improvement needs that were identified in the original project but left out due to budgetary limitations. LCA has asked if this money could be utilized to replace storage cut from the original design with a small storage building back in the project. This will provide them with the full program of storage required to operate as they do now.

The Department of Military Affairs (DMA) supports this request based on the following:

- This request is reasonable in the context of the original project. A significant amount of storage was cut from the original design due to cost limitations that this new funding would address.
- While this building could be bid as a separate project, the funding expires at the end of the state fiscal year in June 2015. This would not allow enough time to design, bid and award the project.
- The amount of this restored storage is low compared to the total project award of \$32,025,000 (less than one percent). The next highest responsive bidder was \$32,927,000, a difference of \$902,000.

Allowing this funding to be incorporated into the current project will address the storage shortfall due to budget constraints. If acceptable, DMA will submit a funding letter to the Capital Development Board.

DMA believes that this expenditure is within the original scope of this project and is being offered in order to provide LCA with needed storage space to continue operations.

The point of contact for this request is Chuck Evans at (217) 761-3624 or charles.w.evans.nfg@mail.mil.

Sincerely,

A handwritten signature in cursive script, appearing to read "Craig A. Holan".

Craig A. Holan
Lieutenant Colonel, National Guard
Construction and Facilities
Management Officer

Executive Summary for Board Level Proceed Orders

CDB Project No. 830-030-155
Project Description: Exterior Repairs – Various Buildings
Project Location: University of Illinois at Chicago
Chicago, Cook County, Illinois

Project History:

The University of Illinois at Chicago is an 11,413,396 square-foot, 106-building campus constructed in 1910.

The scope of work for the two buildings located at 400 South Peoria Street, Art and Design Hall (AEH) and 412 South Peoria Street, College of Urban Planning and Public Affairs Hall (CUPPA Hall) provides for the replacement of all windows on both buildings, repair of deteriorating masonry including new lintels, replacing parapet on CUPPA Hall (412 building), new through wall flashings, partial wall rebuilds, limestone and terra cotta repairs, tuck-pointing, sealant and backer rod repairs, and cleaning of brick, limestone and terra cotta.

A current IDOT Peoria Street Bridge project, which is part of the larger I-290 Jane Byrne Interchange project, has impacted the completion date of the CDB/UIC project because of limited site access. As a result, the work on the overall project has not been able to progress. Unforeseen conditions resulted in additional scope to accomplish the base work.

Access to the site has been coordinated with Illinois Department of Transportation's (IDOT) permission to allow the window of construction to extend to December 2015.

Requested Action:

Proceed Order Number G-023: The approval of this proceed order will allow the contractor to address the lead removal of existing window frames and revise any electrical, heating or plumbing work effected by the window installation occurring at AEH 410 Peoria Street. This work when executed as a change order will be related to Request for Approval of Change Order (RFP-CO) Number G-014R.

Proceed Order Number G-024: The contractor will have until December 31, 2015 to complete the work remaining in his scope. This proceed order is intended to compensate the contractor for overtime in excess of the normal eight-hour work day. Monitoring will be verified by certified payroll and the pay scale indicated in the Union contract.

We are requesting approval of Proceed Order Number G-023 in the not-to-exceed amount of \$277,803.43, and Proceed Order Number G-024 in the not-to-exceed amount of \$696,000.00 for the above-referenced work.

Note: Costs for both change orders will be verified by the workers time confirmed on the certified payroll, through union agreements, and the A/E observation reports that follow the scopes of the change orders.

Project Number: 830-030-155
Description: Exterior Repair Art and design
Hall & College of Urban
Planning & Public Affairs
University of Illinois @ Chicago
Chicago, Cook County, IL
Using Agency: University of Illinois @ Chicago
Architect/Engineer: McGuire Iglesias & Associates
1330 Sherman Avenue
Evanston, IL 60201
Project Manager: Abdulgaffar Shedbalkar
Total Project Budget: \$5,479,900.00
Unobligated Funds: \$1,735,317.28
Percent Completion: 55%

Reason for Change:

User Request. A current IDOT Peoria Street Bridge project which is part of the larger I-290 Jane Byrne Interchange project impacts access to the CDB/U of I project. The IDOT Peoria Street project has caused the general contractor to demobilize and perform limited activities under limited access. Related utility work by AT&T on Van Buren Street has caused additional delays.

In order for CDB to resume construction activities a number of change orders are required. The following are subsequent Proceed Orders that will need to be in place before work can start. Each change addresses a different scope of work.

Description of Change:

PO G-023 The approval of this proceed order will allow the contractor to address the lead removal of existing window frames and revise any electrical, heating or plumbing work effected by the window installation occurring at AEH 410 Peoria Street. This work when executed as a change order will be related to RFPCO G-014R.

PO G-024 The contractor will have until December 31, 2015 to complete the work remaining in his scope. This proceed order is intended to compensate the contractor for time over straight hours, monitoring which will be verified by certified pay roll and pay scale indicated in the Union contract.

CONTRACTOR	Trade	Proceed Order Amount	Original Contract	% CHANGE
KR Miller Contractors, Inc.	General – PO G023	\$ 277,803.43	\$ 3,095,150.00	8.97%
KR Miller Contractors, Inc.	General – PO G024	\$ 696,000.00	\$ 3,095,150.00	22.48%
Total All Change Orders		\$ 973,803.43	\$ 3,095,150.00	31.46%

Completion Effect: 245 days

PROCEED ORDER NO. G-023

CDB PROJECT NO.: 830-030-155

CONTRACT NO.: 14-0451-81

DATE: 6/01/15

CONTRACTOR (Name, Address)
K R Miller Contractors, Inc.
1624 Colonial Parkway
Inverness, IL 60067

PROJECT (Name, City, County)
Exterior Repairs – Various Buildings
University of Illinois – Chicago
Chicago, Cook County

Contract Work: General **Using Agency:** Illinois Board of Higher Education

DESCRIPTION OF CHANGE IN WORK:

Remove / reroute ME utilities necessary to complete the installation of the temporary shoring to repair concrete lintels.

Perform lead based paint removal at each of 30 lintel and window openings and cost to remove lead based paint from concrete surfaces as necessary. Remove and dispose of wood window frames containing lead based paint on approximately 84 masonry opening.

Justification for the proceed order:

At 400 S. Peoria St., the window demolition revealed lead based paint on concealed frames and active mechanical, electrical utilities that will interfere with shoring. LEAD base paint window frames needs to be removed and disposed of and ME utilities needs to be removed / rerouted.

TOTAL \$ VALUE OF THIS ORDER NOT TO EXCEED: \$ 277,803.43

Contractor Representative's Signature 

Costs for work involved and change in Sum and Time (if any) will be submitted for inclusion in a RFP/CO adjusting the Contract Sum and/or Contract Time subject to the CDB procedures for processing contract changes as outlined in the Capital Development Board's Standard Documents for Construction. Approval and issuance of this document does not eliminate the requirement for the subsequent RFP/CO to be reviewed and approved by CDB to determine it to be fair and reasonable.

Authorization to Proceed by:

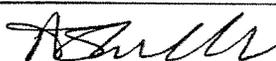
My review of this change order has determined that: the circumstances which have necessitated this change order were not reasonably foreseeable at the time the contract was signed, or the change is germane to the original contract as signed, or the change order is in the best interest of the State and authorized by law, as described. (Applicable only to a change order or a series of change orders increasing or decreasing the contract amount more than \$10,000.00 or the contract time by more than 30 days.)

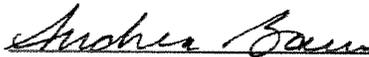
(Up to \$24, 999)

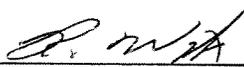
(Up to \$49, 999)

(Up to \$74,999)

(Up to \$100,000)
If Board Level insert
Agenda Item No. _____

 6/1/15
Project Manager Date

 6/1/2015
Regional Manager Date

 6/2/15
Construction Administrator Date

Vacant
Deputy Director - Construction Date

Executive Director Date

and Board Meeting Date

PROCEED ORDER NO. G-024

CDB PROJECT NO.: 830-030-155

CONTRACT NO.: 14-0451-81

DATE: 6/01/15

CONTRACTOR (Name, Address)
K R Miller Contractors, Inc.
1624 Colonial Parkway
Inverness, IL 60067

PROJECT (Name, City, County)
Exterior Repairs – Various Buildings
University of Illinois – Chicago
Chicago, Cook County

Contract Work: General **Using Agency:** Illinois Board of Higher Education

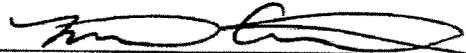
DESCRIPTION OF CHANGE IN WORK:

Based on the floor plans attached and the Substantial completion date of November 30, 2015, provide the acceleration cost to complete the remaining base contract work and identified Change Order work through RFPCO G-23. Cost of scheduled acceleration shall include the necessary supervision, additional overtime Saturdays and Sundays, electrical modifications, and the necessary additional canopies, sidewalk protection and equipment to support the accelerated work.

Justification for the proceed order:

The Using Agency would like to complete the remainder of work by November 30, 2015.

TOTAL \$ VALUE OF THIS ORDER NOT TO EXCEED: \$ 696,000.00

Contractor Representative's Signature 

Costs for work involved and change in Sum and Time (if any) will be submitted for inclusion in a RFP/CO adjusting the Contract Sum and/or Contract Time subject to the CDB procedures for processing contract changes as outlined in the Capital Development Board's Standard Documents for Construction. Approval and issuance of this document does not eliminate the requirement for the subsequent RFP/CO to be reviewed and approved by CDB to determine it to be fair and reasonable.

Authorization to Proceed by:

My review of this change order has determined that: the circumstances which have necessitated this change order were not reasonably foreseeable at the time the contract was signed, or the change is germane to the original contract as signed, or the change order is in the best interest of the State and authorized by law, as described. (Applicable only to a change order or a series of change orders increasing or decreasing the contract amount more than \$10,000.00 or the contract time by more than 30 days.)

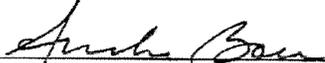
(Up to \$24, 999)

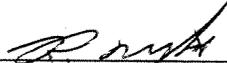
(Up to \$49, 999)

(Up to \$74,999)

(Up to \$100,000)
If Board Level insert
Agenda Item No. _____

 4/1/15
Project Manager Date

 6/1/2015
Regional Manager Date

 6/7/15
Construction Administrator Date

Vacant
Deputy Director - Construction Date

Executive Director Date

and Board Meeting Date

Executive Summary for Board Level Change Orders

CDB Project No. 830-030-155
Project Description: Masonry Restoration and Window Replacement
Project Location: University of Illinois at Chicago
Chicago, Cook County, Illinois

Project History:

The University of Illinois at Chicago is an 11,413,396 square-foot, 106-building campus constructed in 1910.

The scope of work for the two buildings located at 400 South Peoria Street, Art and Design Hall (AEH) and 412 South Peoria Street, College of Urban Planning and Public Affairs Hall (CUPPA Hall) provides for the replacement of all windows on both buildings, repair of deteriorating masonry including new lintels, replacing parapet on CUPPA Hall (412 building), new through wall flashings, partial wall rebuilds, limestone and terra cotta repairs, tuck-pointing, sealant and backer rod repairs, and cleaning of brick, limestone and terra cotta.

A current IDOT Peoria Street Bridge project which is part of the larger I-290 Jane Byrne Interchange Project has impacted the completion date of the CDB/UIC project because of limited site access. As a result, the work on the overall project has not been able to progress. Unforeseen conditions resulted in additional scope to accomplish the base work.

Requested Action:

We are requesting approval of the following change orders for the referenced work:

1. Change Order Number G-10R2 in the amount of \$177,573.00
2. Change Order Number G-014R in the amount of \$353,905.59
3. Change Order Number G-017R in the amount of \$225,623.80

Change Order Number G-10R2: Extension of General Conditions on the original day of construction time per the contract was exceeded in November 2014. This change order is to extend the contractors general conditions to provide construction services and supervision until the end of December 2015.

Change Order Number G-014R: Unforeseen conditions were discovered in 2014 when the contractor was working on AEH 400 S. Peoria Street. Deterioration of window frames and ceilings were concealed until repairs began. Old wooden frames, jamb and sill pockets were left in place (typical industry standards for new window install at the time of the last window installation). In order to install the new windows, the lead painted wooden windows, ceilings and infilling of the pockets are required. The lintels will need to be repaired to accommodate the window replacement.

Change Order Number G-017R: In 2014, when the contractor was working on CUPPA Hall 412 S. Peoria, it was found that the masonry was in poor condition and required repairs which include masonry repairs of the sill, jambs and head repair.

Note: Proceed Order G-023 will be related to Change Order G-014R.

Project Number:	830-030-155	Using Agency:	University of Illinois @ Chicago
Description:	Masonry Restoration & Window Replacement University of Illinois @ Chicago Chicago, Cook County, IL	Architect/Engineer:	McGuire Igleski & Associates 1330 Sherman Avenue Evanston, IL 60201
Total Project Budget:	\$5,479,900.00	Project Manager:	Abdulgaffar Shedbalkar
Unobligated Funds:	\$1,735,317.28*		
Percent Completion:	55%		

Reason for Change:

User Request. A current IDOT Peoria Street Bridge project which is part of the larger I-290 Jane Byrne Interchange project impacts access to the CDB/U of I project, thus requiring special coordination efforts between IDOT, University of Illinois @ Chicago and CDB, thus allowing both projects to move forward as soon as possible.

In order for CDB to resume construction activities a number of change orders are required. These are subsequent Proceed Orders will need to be in place before work can start. Each change addresses a different scope of work.

Description of Change:

Change Order G-10R-R2 Extension of General Conditions the original day of construction time per the contract was exceeded in November 2014. This change order is to extend the contractors general conditions to provide construction services and supervision until the end of December 2015.

Change Order G-014R is an unforeseen condition that was discovered in 2014 when the contractor was working on AEH 410 S. Peoria Street. The concrete lintels had deteriorated and existing windows were not installed per typical industry standards. The scope of work to abate lead and utility conflicts is yet to be determined. It will be part of PO G-23 and, after documented, it will be presented to the board.

Change Order G-017 in 2014 when the contractor was working on CUPPA Hall 412 S. Peoria masonry required repairs. A previous change order (G-002) was executed to develop a scope for the same window types on this building. The scope was later reduced to exclude the SE corner which has been experiencing movement noticed in January of 2015 adjacent to the IDOT work area.

CONTRACTOR	Trade	Change Order Amount	Original Contract	% CHANGE
KR Miller Contractors, Inc.	General – G10R-R2	\$ 177,573.00	\$ 3,095,150.00	5.73%
KR Miller Contractors, Inc.	General – G-014R	\$ 353,905.59	\$ 3,095,150.00	11.43%
KR Miller Contractors, Inc.	General – G-017	\$ 225,623.80	\$ 3,095,150.00	7.28%
Total All Change Orders		\$ 757,102.39	\$ 3,095,150.00	24.46%

Completion Effect: 245 days

State of Illinois
CAPITAL DEVELOPMENT BOARD

**REQUEST FOR PROPOSAL
& CHANGE ORDER**

G-10R2

Date: 05/12/2015 RFP Number: G010-R2

1. (Contractor's Name, Address, Telephone, Fax & Attention) **CDB Project #: 830 030 155**
CDB Project Name: Masonry Restoration and Window Replacement
& Location: 400 & 412 S. Peoria Street
The University of Illinois, Chicago II
CDB Contract #: 14 045 181
Contract Work: General
 K.R. Miller Contractors, Inc.
 312 N. May Street #110
 Chicago, IL 60607
 (312)432-1070 Fax (312)432-1071
 Attn: Steve Krause e-mail: steve@stkrause.com

2. **REQUEST for change by: Using Agency**
 CDB contemplates making certain changes, additions and deletions to the work to be performed under the subject Contract. Unless otherwise indicated in the description of change, accompanying drawings and specifications, all work required shall conform to the contract documents. The Contractor is required to submit within 14 calendar days from the date herein a proposal and a detailed breakdown for this change. The proposal shall be submitted in accordance with CDB's format and the General Conditions.

3. **REASON for change:**
 The IDOT Peoria Street Bridge project has caused the General Contractor and subcontractors to demobilize from Peoria Street and perform restricted activities under limited access. The restrictions and delays will require an extension of contract and extended general conditions for the General Contractor. Related utility work by AT & T on Van Buren Street has caused additional delays.

4. **DESCRIPTION of change including reference to drawings and specifications revised, new drawings and specifications issued.**
 1. Contract time shall be extended an additional 422 calendar days (11-01-2014 through 11-30-2015, 60 weeks). 2. Revise Substantial Completion from 11-21-2014 to 11-30-2015. 3. Revise Final Completion from 01-20-2015 to 12-31-2015. 4. Provide a weekly cost for extended general conditions to start June 1, 2015 and include: job site supervisions per SDC007240.7

5. **OTHER CONTRACTS affected by this change. List Contractor's name, contract work, RFP number and amount.**

IMPORTANT NOTICE
 Disclosure of this information is mandatory in accordance with the Standard Documents for Construction. Failure to complete this will prevent payment for work completed and/or be a material breach of contract.

6. **CONSIDERATION:**
 Work to be accomplished in 422 Calendar Days from Approval of RFPCO. **The Contract Sum is INCREASED**
 by the total sum of.....\$ 177,573.69
NOTE: Unless specifically indicated above, this does not extend the contract time.

7. The change described above and on accompanying drawings and specifications and the Contractor's proposal (if applicable) are hereby incorporated by reference and made a part hereof. Having reviewed the above and determining the amount to be fair and proper the undersigned:

RECOMMEND issuance of a change order **APPROVE** as to form and content:
 A/E Firm Name: McQuinn, Tjebk, & Associates, Inc. **USING AGENCY:**
 BY [Signature] signature BY [Signature] signature
COORDINATING CONTRACTOR or CONSTRUCT. MANAGER **CDB/PM APPROVE**
 BY [Signature] signature BY [Signature] signature
CONTRACTOR **DATE** 5/28/15 **CDB APPROVE change order** **DATE** _____
 BY MICHAEL CWISNKA print name BY _____ print name
[Signature] signature BY _____ signature
VICE PRESIDENT title BY _____ title

B.	FOR CDB	Type of Change	% Assess	Package No.	CO Date	CO No.	CO AMOUNT add (deduct)

Revised August 2008

State of Illinois
CAPITAL DEVELOPMENT BOARD

CPBS

Contractor's/Subcontractor's
Proposal Breakdown Summary
Date: 5/28/2015

FROM: Contractor/Subcontractor Name, Address <u>K.R. Miller Contractors, Inc.</u> <u>1624 Colonial Parkway</u> <u>Inverness, IL 60067</u> Subcontractor indicate name of contractor.	Project No. <u>830-030-155</u> <u>Masonry Restoration & Window Replacement</u> <u>University of Illinois at Chicago</u> <u>400 & 412 S. Peoria</u> CONTRACT WORK: <u>General</u> CDB CONTRACT NO: <u>14 045 181</u> RFP No: <u>G10R</u>
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I. SUMMARY OF DETAILED BREAKDOWN

Note: Detailed breakdown must be attached.

	Additions	Deletions	Net Total
A. MATERIAL			
B. LABOR	\$42,487.20		\$42,487.20
C. OTHER	\$103,545.00		\$103,545.00
D. NET TOTAL A+ B+C			\$146,032.20
E. OVERHEAD & PROFIT Line D X 18%* (min. \$100) additions only, deletions -0-			\$26,285.80
F. TOTAL PROPOSAL FOR CONTRACTOR'S WORK		Lines D + E	\$172,318.00

II. CONTRACTORS MARKUP ON WORK OF SUBCONTRACTORS

Note: Detailed Breakdowns and summaries (CPBS Form) form each subcontractor must be attached.

SUBCONTRACTOR: Firm Name	CONTRACTOR WORK: Description	PROPOSAL **

G. SUBTOTAL of all work performed by contractor's subcontractors	
H. CONTRACTOR'S MARK-UP on work of subcontractors (min. \$50)	Line G X 6% *
I. TOTAL PROPOSAL FOR SUBCONTRACT WORK	Line G+H

III. PROPOSAL

J. BONDS (<input type="checkbox"/> 0.95 %) (if applicable) Enter percentage as a number, for 10%, enter 10	\$172,318.00
K. BUILDERS RISK INSURANCE (<input type="checkbox"/> 2.1 %) (if applicable)	\$1,637.02
L. TOTAL PROPOSAL OF THIS CONTRACTOR (for subject RFPCO) Lines F+ I +J +K	\$177,573.69
M. RCIF: {line L+95% (minus line L)} Applicable for Indemnified Projects Only Is This Contract to be Indemnified? Y or N <input type="checkbox"/>	
N. PROPOSAL for subject RFPCO increase (decrease) in contract amount.	\$177,573.69
O. Work to be accomplished in <u>422</u> Calendar Days from Approval of RFPCO.	

CONTRACTOR
 (Signature)  Title Vice President Date 5/28/2015
 (Name Typed) Michael Cwienkala

* As per Contract Documents, General Conditions

** Subcontractor's Proposal Amounts from Line N of Subcontractor's CPBS Form

State of Illinois
CAPITAL DEVELOPMENT BOARD

REQUEST FOR PROPOSAL & CHANGE ORDER

Date: 05/11/2015 RFP Number: G014-R1

<p>1. (Contractor's Name, Address, Telephone, Fax & Attention)</p> <p>K.R. Miller Contractors, Inc. 312 N. May Street #110 Chicago, IL 60607</p> <p>(708)297-8133 Fax (312)432-1071 Attn: Steve Krause e-mail: steve@stkrause.com</p>	<p>CDB Project #: 830 030 155 CDB Project Name: Masonry Restoration and Window Replacement & Location: 400 & 412 S Peoria Street The University of Illinois, Chicago II</p> <p>CDB Contract #: 14 045 181 Contract Work: General</p>
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2. REQUEST for change by: Architect

CDB contemplates making certain changes, additions and deletions to the work to be performed under the subject Contract. Unless otherwise indicated in the description of change, accompanying drawings and specifications, all work required shall conform to the contract documents. The Contractor is required to submit within 14 calendar days from the date herein a proposal and a detailed breakdown for this change. The proposal shall be submitted in accordance with CDB's format and the General Conditions.

3. REASON for change:

The window removal as part of the base scope of work uncovered hidden deterioration that was concealed. Excessive concrete lintel deterioration exists above windows at the north and east façade. Unknown conditions were discovered including the presence of wood window frames, jamb and sill pockets and areas of hung plaster ceiling that interfere with the window replacement. In order to install the new windows, removal of wood frames, ceilings and infilling of pockets will be required.

4. DESCRIPTION of change including reference to drawings and specifications revised, new drawings and specifications issued.

At 400 S. Peoria Street, North and East Façade: Repair excessive concrete lintel deterioration. Provide a cost breakdown per opening, to include up to 30 openings, for the full depth of concrete lintel repair and including the necessary shoring. Access to work areas, removal of drop ceilings at interior face of lintel, provide additional formwork, materials, and labor for the increased quantity of lintel repair areas. As a Unit Price per opening, to include up to 84 openings. Provide a cost for new wood blocking at masonry and concrete pockets. Floor plans indicating occupied areas are attached.

5. The Structural Details 1 & 2 S1.02 shall be revised per field conditions
OTHER CONTRACTS affected by this change. List Contractor's name, contract work, RFP number and amount.

RFPCO G-010R2, \$ _____
RFPCO G-013, \$ _____
RFPCO G-021, \$ _____

IMPORTANT NOTICE

Disclosure of this information is mandatory in accordance with the Standard Documents for Construction. Failure to complete this will prevent payment for work completed and/or be a material breach of contract.

6. CONSIDERATION:

Work to be accomplished in 90 Calendar Days from Approval of RFPCO.

The Contract Sum is INCREASED
by the total sum of \$ 353,905.59

NOTE: Unless specifically indicated above, this does not extend the contract time.

7. The change described above and on accompanying drawings and specifications and the Contractor's proposal (if applicable) are hereby incorporated by reference and made a part hereof. Having reviewed the above and determining the amount to be fair and proper the undersigned:

RECOMMEND issuance of a change order
A/E Firm Name McGuire, Iglesiaski & Associates, Inc. 5/28/15

BY [Signature] signature

COORDINATING CONTRACTOR or CONSTRUCT. MANAGER
BY _____ signature

CONTRACTOR DATE 5/20/15
BY MICHAEL CENZKALA print name
[Signature] signature
VICE PRESIDENT title

APPROVE as to form and content: 5/26/15
USING AGENCY name _____

BY [Signature] signature

CDB APPROVE
[Signature] signature

CDB APPROVE change order DATE _____
BY _____ print name
_____ signature
_____ title

8	FOR CDB USE ONLY	Type of Change	% Assess	Package No	CO Date	CO No	CO AMOUNT add (deduct)
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State of Illinois
CAPITAL DEVELOPMENT BOARD

CPBS

Contractor's/Subcontractor's
Proposal Breakdown Summary
Date: 5/20/2015

FROM: Contractor/Subcontractor Name, Address	Project No <u>830-030-155</u>
K.R. Miller Contractors, Inc.	Masonry Restoration & Window Replacement
1624 Colonial Parkway	University of Illinois at Chicago
Inverness, IL 60067	400 & 412 S. Peoria
Subcontractor indicate name of contractor.	CONTRACT WORK: <u>General</u>
288	CDB CONTRACT NO: <u>14 045 181</u>
	RFP No: <u>G14</u>

I. SUMMARY OF DETAILED BREAKDOWN
Note: Detailed breakdown must be attached

	Additions	Deletions	Net Total
A. MATERIAL	\$2,808.00		\$2,808.00
B. LABOR	\$25,727.60		\$25,727.60
C. OTHER	\$5,745.00		\$5,745.00
D. NET TOTAL A+B+C			\$34,280.60
E. OVERHEAD & PROFIT <small>Line D X 18%* (min \$100) additions only, deletions -0-</small>			\$6,170.51
F. TOTAL PROPOSAL FOR CONTRACTOR'S WORK		Lines D + E	\$40,451.11 ✓

II. CONTRACTORS MARKUP ON WORK OF SUBCONTRACTORS
Note: Detailed Breakdowns and summaries (CPBS Form) form each subcontractor must be attached

SUBCONTRACTOR: Firm Name	CONTRACTOR WORK: Description	PROPOSAL **
Iwanski Masonry	Masonry/Concrete Repair	\$141,604.72
Reflection Window	Carpentry/Window Installation	\$50,823.54
International Scaffolding	Shoring	\$93,401.78

G. SUBTOTAL of all work performed by contractor's subcontractors		\$285,830.04
H. CONTRACTOR'S MARK-UP on work of subcontractors (min. \$50)	Line G X 6% *	\$17,149.80
I. TOTAL PROPOSAL FOR SUBCONTRACT WORK	Line G+H	\$302,979.84

III. PROPOSAL

J. BONDS (<u>0.95</u> %) (if applicable) <small>Enter percentage as a number, for 10%, enter 10</small>		\$3,262.59
K. BUILDERS RISK INSURANCE (<u>2.1</u> %) (if applicable)		\$7,212.05
L. TOTAL PROPOSAL OF THIS CONTRACTOR (for subject RFPCO)	Lines F+ I +J +K	\$353,905.59
M. RCIF: (line L+95% (minus line L)) <small>Applicable for Indemnified Projects Only</small>	Is This Contract to be Indemnified? Y or N <input type="checkbox"/>	
N. PROPOSAL for subject RFPCO increase (decrease) in contract amount.		\$353,905.59
O. Work to be accomplished in <u>90</u> Calendar Days from Approval of RFPCO.		

CONTRACTOR
 (Signature)  Title Vice President Date 5/20/2015
 (Name Typed) Michael Cwienkals

* As per Contract Documents, General Conditions
 ** Subcontractor's Proposal Amounts from Line N of Subcontractor's CPBS Form

State of Illinois
CAPITAL DEVELOPMENT BOARD

REQUEST FOR PROPOSAL & CHANGE ORDER

Date: ~~00~~ 5/15/15 RFP Number: G017-R

1. (Contractor's Name, Address, Telephone, Fax & Attention) CDB Project #: 630 030 155
CDB Project Name: Masonry Restoration and Window Replacement
& Location: 400 & 412 S. Peoria Street
The University of Illinois, Chicago II

K.R. Miller Contractors, Inc.
312 N. May Street #110
Chicago, IL 60607

CDB Contract #: 14 045 181
Contract Work: General

(312)432-1070 Fax (312)432-1071
Attn: Steve Krause e-mail: steve@stkrause.com

2. REQUEST for change by: Architect

CDB contemplates making certain changes, additions and deletions to the work to be performed under the subject Contract. Unless otherwise indicated in the description of change, accompanying drawings and specifications, all work required shall conform to the contract documents. The Contractor is required to submit within 14 calendar days from the date herein a proposal and a detailed breakdown for this change. The proposal shall be submitted in accordance with CDB's format and the General Conditions.

3. REASON for change:

Unforeseen conditions were exposed during the course of the window demolition at 412 S. Peoria, as addressed in RFFCO G003, G005. The balance of windows at 412 S. Peoria are expected to require similar repairs. The masonry at sill, head and jamb is in poor condition and incapable of being anchored into. Due to deterioration, the proposed blocking can not be provided/installed as indicated. Additional infill/ blocking is required to infill the masonry opening at head and jamb to prepare conditions for window installation. Additionally, the brick sill, exposed during demolition, composed of brick and stone is in very poor condition and requires rebuilding.

4. DESCRIPTION of change including reference to drawings and specifications revised, new drawings and specifications issued.

Provide itemized costs of masonry and carpentry work at 31 openings. Clear all loose masonry material from opening prior to installation of metal stud blocking assembly. Remove previous wood remnants and loose brick from sill. Install 3 new courses of brick, joint reinforcing and type n mortar, fill collar joint solid. At each opening provide 6" deep, 16 ga. galvanized steel stud, tracks and angles to span the full height and width of opening. Provide additional ceiling removal and replacement in order to access the full width of opening to install new studs along window head. Provide 1/2" plywood sheathing at sill and head locations for anchoring the blocking into. Provide wood blocking to prepare the opening for window installation.

5. OTHER CONTRACTS affected by this change. List Contractor's name, contract work, RFP number and amount.

RFFCO G-016 \$ _____
RFFCO G-021 \$ _____

IMPORTANT NOTICE
Disclosure of this information is mandatory in accordance with the Standard Documents for Construction. Failure to complete this will prevent payment for work completed and/or be a material breach of contract.

6. CONSIDERATION:

Work to be accomplished in 90 Calendar Days from Approval of RFFCO.

The Contract Sum is INCREASED

by the total sum of.....\$ 225,623.80

NOTE: Unless specifically indicated above, this does not extend the contract time.

7. The change described above and on accompanying drawings and specifications and the Contractor's proposal (if applicable) are hereby incorporated by reference and made a part hereof. Having reviewed the above and determining the amount to be fair and proper the undersigned:

RECOMMEND issuance of a change order

A/E Firm Name McGuire Iglesias & Associates, Inc.

BY [Signature] signature

APPROVE as to form and content.

USING AGENCY name

BY [Signature] 5/19/15 signature

COORDINATING CONTRACTOR or CONSTRUCT. MANAGER

BY N/A signature

CDB APPROVE

[Signature] signature

CONTRACTOR

DATE 5/15/15

BY MICHAEL CZERNIKALA print name

[Signature] signature

VELE PRESIDENT title

CDB APPROVE change order

DATE _____

BY _____ print name

_____ signature

_____ title

8. FOR CDB USE ONLY	Type of Change	% Assess	Package No.	CO Date	CO No.	CO AMOUNT add (deduct)
						\$ _____

Revised August 2008

SUBJECT: Staff Recommendations for Board Selection of Architects/Engineers

PROJECT NO.	FIRM/JOB DESCRIPTION	ESTIMATED TOTAL PROJECT COST
291-095-006	Roof Repair and Tuckpointing - Headquarters Department of State Police East Moline District 7, Rock Island County FIRMS RECOMMENDED IN ALPHA ORDER: <i>Carlile Architects, LLC</i> <i>Kenyon & Associates Architects, Inc.</i> <i>Sarti Architectural Group, Inc.</i>	\$ 246,000
624-060-038	Renovate Parking Structure Department of Revenue Revenue Building (Willard Ice Building), Sangamon County FIRMS RECOMMENDED IN ALPHA ORDER: <i>Civil Design, Inc.</i> <i>Construction Technology Laboratories Inc.</i> <i>Walker Parking Consultants/Engineers, Inc.</i>	\$3,000,000

A/E SELECTION COMMITTEE RECOMMENDATIONS
June 9, 2015

CDB PROJECT NO: 291-095-006

PROJECT DESCRIPTION: Roof Repair and Tuckpointing - Headquarters

PROJECT LOCATION: Department of State Police
East Moline District 7, Rock Island County

APPROPRIATION AMOUNT: \$ 246,000

ESTIMATED TOTAL PROJECT COST: \$ 246,000

PROJECT SCOPE OF WORK:

The District 7 Headquarters (G0735) is an 18,232 square foot, two-story building constructed in 1938.

The scope of work provides for removing the existing roofing and installing 20,800 square feet of architectural style shingles. The work will include new underlayment, trim, flashings, gutters and downspouts. The scope also provides for 1,200 square feet of brick tuckpointing.

There are no MBE/FBE/VBE goals applied to the A/E team but participation is encouraged.

A/E SELECTION COMMITTEE RECOMMENDATIONS
June 9, 2015

CDB PROJECT NO: 624-060-038

PROJECT DESCRIPTION: Renovate Parking Structure

PROJECT LOCATION: Department of Revenue
Revenue Building (Willard Ice Building),
Sangamon County

APPROPRIATION AMOUNT: \$3,000,000

ESTIMATED TOTAL PROJECT COST: \$3,000,000

PROJECT SCOPE OF WORK:

The Willard Ice Building (I0100) is a 913,236 square foot building constructed in 1982.

The scope of work provides for repairing the parking structure; including concrete repairs, providing corrosion protection, resurfacing the remainder of the garage to prohibit further water infiltration and subsequent deterioration of the structure and upgrading the parking structure lighting.

The A/E will determine if the lighting components of this project are eligible for the applicable energy grants or rebates and will be responsible for preparing and submitting the grant application(s) if the project qualifies.

A combined MBE/FBE goal of 15 percent is applicable to the A/E team. A VBE goal of 3 percent is applicable to the A/E team.

CDB M E M O R A N D U M

TO: Capital Development Board

FROM: Lisa Mattingly

DATE: June 9, 2015

RE: Proposed Rule Change
Illinois Energy Conservation Code
IAC Title 71, Part 600

Attached for your review and approval is a proposed amendment to the Illinois Energy Conservation Code Rules (71 IAC 600).

New verbiage is underlined and deleted verbiage is ~~lined-out~~.

This modification updates the Illinois Energy Conservation Code from the 2012 International Energy Conservation Code to the 2015 International Energy Conservation Code. In addition, it updates the State Funded Facilities section of the rules to reference ANSI/ASHRAE/IES Standard 90.1 – 2013 “Energy Standard for Buildings Except Low-Rise Residential Buildings” in place of the 2010 version of this standard.

Other modifications include:

- Allowance of travel reimbursement for Illinois Energy Conservation Advisory Council members was added.
- For State Funded Facilities, two exceptions were removed that have been addressed in a newer version of the standard.
- A few sections were rearranged or reworded to make the rules more consistent.
- Appendix A now references the Illinois specific amendments to the 2015 International Energy Conservation Code versus the 2012.

Upon approval by the Board, the rules will be filed with the Secretary of State and submitted to the Joint Committee on Administrative Rules.

Thank you for your consideration in this matter.

TITLE 71: PUBLIC BUILDINGS, FACILITIES, AND REAL PROPERTY
CHAPTER I: CAPITAL DEVELOPMENT BOARD
SUBCHAPTER d: ENERGY CODES

PART 600
ILLINOIS ENERGY CONSERVATION CODE

SUBPART A: GENERAL

Section	
600.100	Definitions
600.110	Adoption and Modification of the Code
600.120	Illinois Energy Conservation Advisory Council
600.130	Revisions to the Code

SUBPART B: STATE FUNDED FACILITIES

Section	
600.200	Standards for State Funded Facilities
600.210	Request for Variance
600.220	Compliance

SUBPART C: PRIVATELY FUNDED COMMERCIAL FACILITIES

Section	
600.300	Standards for Privately Funded Commercial Facilities
600.310	Exemptions
600.320	Local Jurisdiction
600.330	Compliance
600.340	Application to Home Rule Units

SUBPART D: RESIDENTIAL BUILDINGS

Section	
600.400	Standards for Residential Buildings
600.410	Exemptions
600.420	Local Jurisdiction
600.430	Compliance
600.440	Application to Home Rule Units

600.APPENDIX A Supplanted and Additional 2012~~5~~ International Energy Conservation Code Sections

AUTHORITY: Implementing and authorized by the Capital Development Board Act [20 ILCS 3105] and the Energy Efficient Building Act [20 ILCS 3125].

SOURCE: Adopted by emergency rulemaking at 28 Ill. Reg. 11355, effective July 26, 2004, for a maximum of 150 days; emergency rules expired December 22, 2004; adopted at 29 Ill. Reg. 777, effective January 1, 2005; new Part adopted by emergency rulemaking at 29 Ill. Reg. 5736, effective April 8, 2005, for a maximum of 150 days; emergency expired September 4, 2005; emergency rulemaking repealed at 29 Ill. Reg. 6093, effective April 18, 2005, for a maximum of 150 days; emergency expired September 14, 2005; old Part repealed at 29 Ill. Reg. 16414 and new Part adopted at 29 Ill. Reg. 14790, effective April 8, 2006; amended at 31 Ill. Reg. 14422, effective October 9, 2007; emergency amendment at 33 Ill. Reg. 12407, effective August 18, 2009, for a maximum of 150 days; amended at 33 Ill. Reg. 16702, effective November 23, 2009; emergency rulemaking at 34 Ill. Reg. 2582, effective January 29, 2010, for a maximum of 150 days; emergency expired June 27, 2010; amended at 34 Ill. Reg. 11398, effective July 26, 2010; amended at 37 Ill. Reg. 789, effective January 11, 2013; amended at 37 Ill. Reg. 12822, effective July 23, 2013.

SUBPART A: GENERAL

Section 600.100 Definitions

Definitions of terms in the International Energy Conservation Code, incorporated by reference in Subpart C of this Part, apply, as do the following definitions:

"Act" means the Capital Development Board Act [20 ILCS 3105].

"Authority Having Jurisdiction" or "AHJ" means the organization, office or individual responsible for approving equipment, materials, an installation or procedure.

"CDB" or "Board" means the Illinois Capital Development Board.

"Commercial Facility" means any building except a building that is classified as a residential building. [20 ILCS 3125/10]

"Council" means the Illinois Energy Conservation Advisory Council appointed under Subpart B of this Part and whose purpose it is to recommend modifications to the *Illinois Energy Conservation Code*.

"EEB Act" means the Energy Efficient Building Act [20 ILCS 3125].

"IECC" means the International Energy Conservation Code.

"Illinois Energy Conservation Code" or "Code" means:

With respect to the State facilities covered by Subpart B:

This Part, all additional requirements incorporated within Subpart B (including ASHRAE 90.1 Standards), and any statutorily authorized adaptations to the incorporated standards adopted by CDB;

With respect to the privately funded commercial facilities covered by Subpart C:

This Part, all additional requirements incorporated within Subpart C (including the 2012~~5~~ International Energy Conservation Code which encompasses ASHRAE 90.1, including all published errata but excluding published supplements, ~~which encompasses ASHRAE 90.1~~), and any statutorily authorized adaptations to the incorporated standards adopted by CDB; and

With respect to the residential buildings covered by Subpart D:

This Part, all additional requirements incorporated within Subpart D (including the 2012~~5~~ International Energy Conservation Code, including all published errata but excluding published supplements) and any statutorily authorized adaptations to the incorporated standards adopted by CDB.

"Municipality" means any city, village or incorporated town. [20 ILCS 3125/10]

"Professional Services Agreement" means the contract for services entered into by CDB and design professionals.

"Residential Building" means a detached one-family or 2-family dwelling or any building that is 3 stories or less in height above grade that contains multiple dwelling units, in which the occupants reside on a primarily permanent basis, such as a townhouse, a row house, an apartment house, a convent, a monastery, a rectory, a fraternity or sorority house, a dormitory, and a rooming house; provided, however, that when applied to a building located within the boundaries of a municipality having a population of 1,000,000 or more, the term "residential building" means a building containing one or more dwelling units, not exceeding 4 stories above grade, where occupants are primarily permanent. [20 ILCS 3125/10]

"State Funded Building" means and includes buildings under the jurisdiction of each officer, department, board, commission, institution and body politic and corporate of the State, including the Illinois Building Authority, school districts, and any other person expending or encumbering State or federal funds by virtue of an appropriation or other authorization by the General Assembly or federal authorization or grant. This includes State funded *housing, hospitals, penitentiaries, laboratories, educational facilities, administrative facilities, recreational facilities, environmental equipment and parking facilities* [20 ILCS 3105/4.01].

"Using Agency" means the State agency using facilities described in Section 4.01 of the Act.

(Source: Amended at 37 Ill. Reg. 789, effective January 11, 2013)

Section 600.110 Adoption and Modification of the Code

- a) The purpose of the Illinois Energy Conservation Code is to implement Section 10.09-5 of the Capital Development Board Act [20 ILCS 3105/10.09-5], which requires CDB to adopt rules implementing a statewide Energy Code. Additionally, Section 15 of the Energy Efficient Building Act [20 ILCS 3125/15] requires CDB to officially adopt, as a minimum requirement, the 2012 International Energy Conservation Code, including all published errata but excluding any published supplements, to apply that Code to all commercial structures in Illinois, and to assist local code officials with enforcing the requirements of the Code. The 2012⁵ Illinois Energy Conservation Code will become effective on January 1, 2013.
- b) This Code as described in Subpart B (State facilities) is effective July 26, 2004. This Code as described in Subpart C (privately-funded commercial facilities) is effective April 8, 2007. The Code as described in Subpart D (residential buildings) is effective January 29, 2010.
- c) Application of the Code
 - 1) State Facilities. The Code as described in Subpart B of this Part applies to all State facilities for which money has been appropriated or authorized by the General Assembly.
 - 2) Privately Funded Commercial Facilities and Residential Buildings. The Code as described in Subparts C and D of this Part applies *to any new building or structure in this State for which a building permit application is received by a municipality or county.* [20 ILCS 3125/20]
 - A) *Additions, alterations, renovations or repairs to an existing building, building system or portion thereof shall conform to the provisions of the Code as they relate to new construction without requiring the unaltered portion of the existing building or building system to comply with the Code.* [20 ILCS 3125/20(c)]
 - B) All exceptions listed in the Code related to additions, alterations, renovations or repairs to an existing building are acceptable provided the energy use of the building is not increased.
- d) This Code, together with the standards incorporated by reference in this Part, has the force of a building code and is administrative law applicable in the State of Illinois.

(Source: Amended at 37 Ill. Reg. 789, effective January 11, 2013)

Section 600.120 Illinois Energy Conservation Advisory Council

- a) The Executive Director of the Capital Development Board shall appoint an Advisory Council. The Council shall be composed of the Executive Director or his or her authorized representative, who shall serve as Chairman ex-officio, and 11 additional members appointed by the Executive Director. The appointed members shall consist of 1 person representing the Department of Commerce and Economic Opportunity; 2 persons representing the residential construction contracting industry; 2 licensed architects; 1 licensed mechanical engineer; 1 licensed electrical engineer; 2 persons representing local code officials; and 2 persons representing the construction contracting industry. Members of the Council shall be appointed for 4 year terms. The members appointed by the Executive Director shall serve for the term of their appointments and may be reappointed upon expiration of the term. Any member appointed to fill a vacancy occurring prior to the expiration of the term for which his or her predecessor was appointed shall be appointed for the remainder of the term.
- b) The Council shall meet as frequently as the Chairman deems necessary, but at least once each year. Additional meetings may be called by the Chairman or by 3 members of the Council. Seven members of the Council shall constitute a quorum. The Chairman shall only vote to break a tie or when necessary to establish a quorum.
- c) The purpose of the Council shall be to recommend modifications to the Illinois Energy Conservation Code.
- d) Members of the Council shall serve without compensation but shall be reimbursed for reasonable travel expenses necessarily incurred in the performance of their duties.

(Source: Amended at 37 Ill. Reg. 12822, effective July 23, 2013)

Section 600.130 Revisions to the Code

This Code may be revised by the Capital Development Board on its own volition or pursuant to recommendations of the Illinois Energy Conservation Advisory Council and in accordance with the Illinois Administrative Procedure Act [5 ILCS 100].

SUBPART B: STATE FUNDED FACILITIES

Section 600.200 Standards for State Funded Facilities

- a) ANSI/ASHRAE/IESNA Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings (2010), available from ASHRAE at 1791 Tullie Circle, N.E., Atlanta GA 30329, is hereby incorporated into the Illinois Energy Conservation Code, as described in this Subpart as applicable to State funded facilities, with the modifications outlined in subsection (c).
- b) All incorporations by reference in this Section are of the cited standards as they existed on the date specified. These incorporations include no later editions or amendments.

- c) Modifications to ASHRAE 90.1
ASHRAE 90.1 is incorporated by this Section, but with the following modifications:

1) ASHRAE 90.1 Section 3.2

The terms "adopting authority" and "authority having jurisdiction" shall both be read to mean the Capital Development Board.

~~2) Replace Exception to 9.4.1.2e with the following:~~

~~Exceptions to 9.4.1.2e:~~

~~A) Remote location shall be permitted for reasons of safety or security when the remote control device has an indicator pilot light as part of or next to the control device and the light is clearly labeled to identify the controlled lighting.~~

~~B) Spaces not subject to partial occupancy, such as gymnasiums, cafeterias, lecture halls, etc., shall not be required to have more than one control device.~~

(Source: Amended at 37 Ill. Reg. 789, effective January 11, 2013)

Section 600.210 Request for Variance

a) Who May File a Request for Variance

- 1) Any architect or engineer under contract with CDB to provide professional services for the proposed project.
- 2) The using agency's chief executive officer or his or her designated representative.
- 3) The Chairman of the Illinois Energy Conservation Advisory Council.

b) Consideration of Request for Variance

A variance from any requirement of the Code as described in this Subpart will be granted by CDB for one or more of the following reasons only:

- 1) Compliance would not be technically feasible.
- 2) Compliance would compromise the health, welfare or safety of building occupants.
- 3) Compliance would prevent the building from serving its intended purpose.
- 4) Compliance would violate another State or federal law or code.

- 5) Compliance would increase the energy consumption of the building.
 - 6) Compliance would require the use of inferior products or materials.
- c) Submitting the Request for Variance
- 1) The request shall be submitted to the CDB Project Manager.
 - 2) Requests should be submitted as early in the project as there is cause, but no later than 75 days prior to the anticipated bid date. Approval or denial of a variance shall be no cause for delay in the project unless the request for variance was filed by CDB or the using agency for which the project is being constructed.
 - 3) The following shall be submitted when requesting a variance:
 - A) A letter from the petitioner stating the specific provisions of the Code from which the variance is requested and a detailed explanation of how compliance with the Code would result in one or more of the conditions described in subsection (b).
 - B) The request shall include supporting data, calculations, analysis, etc.
- d) CDB Action
- 1) Upon receipt of the Request for Variance, the CDB Project Manager will review the request and make a recommendation to CDB's Professional Services Unit within 7 calendar days.
 - 2) Professional Services Unit will evaluate the Request for Variance within 30 days after CDB's receipt of the Request and make a determination.
 - 3) If it is determined that the Request for Variance would cause one of the conditions stated in subsection (b), the variance shall be approved by CDB.
 - 4) If it is determined that the Request for Variance would not cause one of the conditions stated in subsection (b), the Agency may:
 - A) Deny the Request for Variance.
 - B) Approve the Request for Variance subject to specific conditions determined by CDB.
- e) Modifications and Revisions
- The petitioner may, in writing, request that the original Request for Variance be modified and resubmit the Request for Variance.

- f) Revocation
CDB may revoke any variance if:
 - 1) it is determined that the variance was obtained through fraud or deceit;
 - 2) the petitioner has violated the specific conditions on which the variance was approved; or
 - 3) the variance was issued in error.

- g) Appeals
 - 1) Any person whose Request for Variance is denied or approved with conditions may appeal CDB's initial determination. The appeal shall be submitted in writing and must be received within 10 days after the initial CDB action is received by the requestor. The request shall be submitted to the Chairman of the Advisory Council.
 - 2) The Chairman of the Advisory Council will review the request with the Advisory Council, as deemed necessary by the Chairman, within 14 days after receipt and take one of the following actions:
 - A) Uphold CDB's initial determination.
 - B) Reverse CDB's initial determination and issue the variance.
 - C) Change the conditions applied to the variance granted by CDB.

(Source: Amended at 34 Ill. Reg. 11398, effective July 26, 2010)

Section 600.220 Compliance

- a) Compliance with the Illinois Energy Conservation Code for State facilities as described by this Subpart B shall mean meeting the requirements of ASHRAE 90.1. Compliance shall be demonstrated by submission of:
 - 1) the compliance forms published in the ASHRAE 90.1 User's Manual; or
 - 2) Compliance Certificates generated by the U.S. Department of Energy's COMCheck code compliance tool; or
 - 3) the seal of the Architect/Engineer as required by Section 14 of the Illinois Architecture Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

- b) For CDB projects, final compliance forms shall be submitted to CDB with the 100% design review package required by the Professional Services Agreement. An in-progress set of compliance forms shall be submitted at the 50% submittal if required by the Professional Services Agreement.

(Source: Amended at 37 Ill. Reg. 789, effective January 11, 2013)

SUBPART C: PRIVATELY FUNDED COMMERCIAL FACILITIES

Section 600.300 Standards for Privately Funded Commercial Facilities

- a) The 201~~2~~5 International Energy Conservation Code (IECC), including published errata but excluding published supplements, available from the International Code Council at 500 New Jersey Avenue NW, 6th Floor, Washington DC 20001, phone: 1-888-ICC-SAFE (422-7233), is hereby incorporated into the Illinois Energy Conservation Code, as described in this Subpart as applicable to privately funded commercial facilities, with the modifications outlined in subsection (c).
- b) All incorporations by reference in this Section are of the cited standards as they existed on the date specified. These incorporations include no later editions or amendments.
- c) Modifications to IECC
Under Section 15 of the EEB Act, when applying the Code to privately funded commercial facilities, CDB may modify the incorporated standards to respond to the unique economy, population distribution, geography and climate of Illinois, as long as the objectives of the Act are maintained pursuant to that statutory authority. Modifications, additions or omissions to IECC are specified in Appendix A and are rules of the CDB and are not requirements of the IECC.

(Source: Amended at 37 Ill. Reg. 789, effective January 11, 2013)

Section 600.310 Exemptions

- a) The following buildings are exempt from the Code:
 - 1) *Buildings otherwise exempt from the provisions of a locally adopted building code and buildings that do not contain a conditioned space;*
 - 2) *Buildings that do not use either electricity or fossil fuel for comfort conditioning;*
 - 3) *Historic buildings listed on the National Register of Historic Places or the Illinois Register of Historic Places, and those buildings that are designated by authorized personnel as historically significant;*
 - 4) *Residential buildings; and*

- 5) *Other buildings specified as exempt by the IECC. [20 ILCS 3125/20]*
- b) *For the purposes of determining whether an exemption authorized under subsection (a)(2) applies, a building will be presumed to be heated by electricity, even in the absence of equipment used for electric comfort heating, whenever the building is provided with electrical service in excess of 100 amps, unless the code enforcement official determines that this electrical services is necessary for purposes other than providing electric comfort heating. [20 ILCS 3125/20(b)(2)]*

Section 600.320 Local Jurisdiction

- a) Construction projects involving privately funded commercial facilities and for which a municipality or county requires a building permit must comply with the Illinois Energy Conservation Code if the project involves new construction, addition, alteration, renovation or repair. *In the case of any addition, alteration, renovation or repair to an existing commercial structure, the Code as described by this Subpart C applies only to the portions of that structure that are being added, altered, renovated or repaired. [20 ILCS 3125/20(a)]*
- b) The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code. The AHJ is authorized to enforce a building code that differs with the Code as described in this Subpart C, but any standards applied by an AHJ must be at least as stringent as the Code as described in this Subpart C.
- c) *A unit of local government that does not regulate energy efficient building standards is not required to adopt, enforce or administer the Code; however, any energy efficient building standards adopted by a unit of local government must comply with the Act. If a unit of local government does not regulate energy efficient building standards, any construction, renovation or addition to buildings or structures is still subject to the provisions contained in the Act. [20 ILCS 3125/20(d)]*

(Source: Amended at 34 Ill. Reg. 11398, effective July 26, 2010)

Section 600.330 Compliance

- a) Compliance with the Illinois Energy Conservation Code as described by this Subpart C (applicable to commercial facilities) shall be determined by the local authority having jurisdiction (AHJ).
- b) Minimum compliance shall be demonstrated by submission of:
- 1) the compliance forms published in the ASHRAE 90.1 User's Manual; or

- 2) Compliance Certificates generated by the U.S. Department of Energy's COMcheck code compliance tool; or
- 3) other comparable compliance materials that meet or exceed, as determined by the authority having jurisdiction, the compliance forms published in the ASHRAE 90.1 User's Manual or the U.S. Department of Energy's COMcheck code compliance tool; or
- 4) the seal of the Architect/Engineer as required by Section 14 of the Illinois Architecture Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

(Source: Amended at 33 Ill. Reg. 16702, effective November 23, 2009)

Section 600.340 Application to Home Rule Units

No unit of local government, including any home rule unit, may apply energy efficient building standards to privately funded commercial facilities in a manner that is less stringent than the Code as described in this Subpart C. However, nothing in the EEB Act or this Subpart prevents a unit of local government from adopting an energy efficiency code or standards that are more stringent than this Code. [20 ILCS 3125/45(a)]

(Source: Amended at 34 Ill. Reg. 11398, effective July 26, 2010)

SUBPART D: RESIDENTIAL BUILDINGS

Section 600.400 Standards for Residential Buildings

- a) The 2012~~5~~ International Energy Conservation Code (IECC), including published errata but excluding published supplements, available from the International Code Council at 500 New Jersey Avenue NW, 6th Floor, Washington DC 20001, phone: 1-888-ICC-SAFE (422-7233), is hereby incorporated into the Illinois Energy Conservation Code, as described in this Subpart as applicable to residential buildings, with the modifications outlined in subsection (c).
- b) All incorporations by reference in this Section are of the cited standards as they existed on the date specified. These incorporations include no later editions or amendments.
- c) **Modifications to IECC**
Under Section 15 of the EEB Act, when applying the Code to residential buildings, CDB may modify the incorporated standards to respond to the unique economy, population distribution, geography and climate of Illinois, as long as the objectives of the Act are maintained pursuant to that statutory authority. Modifications, additions or omissions to IECC are specified in Appendix A and are rules of the CDB and are not requirements of the IECC.

(Source: Amended at 37 Ill. Reg. 789, effective January 11, 2013)

Section 600.410 Exemptions

- a) The following buildings are exempt from the Code:
 - 1) *Buildings otherwise exempt from the provisions of a locally adopted building code and buildings that do not contain a conditioned space;*
 - 2) *Buildings that do not use either electricity or fossil fuel for comfort conditioning;*
 - 3) *Historic buildings listed on the National Register of Historic Places or the Illinois Register of Historic Places, and those buildings that are designated by authorized personnel as historically significant;*
 - 4) *Other buildings specified as exempt by the IECC. [20 ILCS 3125/20]*
- b) *For the purposes of determining whether an exemption authorized under subsection (a)(2) applies, a building will be presumed to be heated by electricity, even in the absence of equipment used for electric comfort heating, whenever the building is provided with electrical service in excess of 100 amps, unless the code enforcement official determines that this electrical service is necessary for purposes other than providing electric comfort heating. [20 ILCS 3125/20(b)(2)]*

(Source: Added at 34 Ill. Reg. 11398, effective July 26, 2010)

Section 600.420 Local Jurisdiction

- a) Construction projects involving residential buildings and for which a municipality or county requires a building permit must comply with the Illinois Energy Conservation Code if the project involves new construction, addition, alteration, renovation or repair. *In the case of any addition, alteration, renovation or repair to an existing commercial structure, the Code as described by this Subpart D applies only to the portions of that structure that are being added, altered, renovated or repaired. [20 ILCS 3125/20(a)]*
- b) The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code.
- c) *A unit of local government that does not regulate energy efficient building standards is not required to adopt, enforce or administer the Code; however, any energy efficient building standards adopted by a unit of local government must comply with the Act. If a unit of local government does not regulate energy efficient building standards, any construction, renovation or addition to buildings or structures is still subject to the provisions contained in the Act. [20 ILCS 3125/20(d)].*

No unit of local government, including any home rule unit, may regulate energy efficient building standards for residential buildings in a manner that is either less or more stringent than the standards established pursuant to this Subpart D.

- 1) ~~However, the following entities may regulate energy efficient building standards for residential buildings in a manner that is more stringent than the provisions contained in this Subpart D:~~
 - i) ~~a unit of local government, including a home rule unit, that has, on or before May 15, 2009, adopted or incorporated by reference energy efficient building standards for residential buildings that are equivalent to or more stringent than the 2006 International Energy Conservation Code;~~
 - ii) ~~a unit of local government, including a home rule unit, that has, on or before May 15, 2009, provided to the Capital Development Board, as required by Section 55 of the Illinois Building Commission Act, an identification of an energy efficient building code or amendment that is equivalent to or more stringent than the 2006 International Energy Conservation Code; and~~
 - iii) ~~a municipality with a population of 1,000,000 or more.~~
- 2) ~~No unit of local government, including any home rule unit or unit of local government that is subject to State regulation under the Code as provided in 20 ILCS 3125/15 may enact any annexation ordinance or resolution, or require or enter into any annexation agreement, that imposes energy efficient building standards for residential buildings that are either less or more stringent than the energy efficiency standards in effect, at the time of construction, throughout the unit of local government.~~

(Source: Added at 34 Ill. Reg. 11398, effective July 26, 2010)

Section 600.430 Compliance

- a) Compliance with the Illinois Energy Conservation Code as described by this Subpart D (applicable to residential buildings) shall be determined by the local AHJ.
- b) Minimum compliance shall be demonstrated by submission of:
 - 1) Compliance Certificates generated by the U.S. Department of Energy's REScheck code compliance tool; or
 - 2) Other comparable compliance materials that meet or exceed, as determined by the AHJ, U.S. Department of Energy's REScheck code compliance tool; or

- 3) The seal of the architect/engineer as required by Section 14 of the Illinois Architecture Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

(Source: Added at 34 Ill. Reg. 11398, effective July 26, 2010)

Section 600.440 Application to Home Rule Units

No unit of local government, including any home rule unit, may regulate energy efficient building standards for residential buildings in a manner that is less or more stringent than the standards established in this Subpart D; provided: [20 ILCS 3125/45(a)]

1) *However, the following entities may regulate energy efficient building standards for residential buildings in a manner that is more stringent than the provisions contained in this Subpart D:*

i) *a unit of local government, including a home rule unit, that has, on or before May 15, 2009, adopted or incorporated by reference energy efficient building standards for residential buildings that are equivalent to or more stringent than the 2006 International Energy Conservation Code;*

ii) *a unit of local government, including a home rule unit, that has, on or before May 15, 2009, provided to the Capital Development Board, as required by Section 55 of the Illinois Building Commission Act, an identification of an energy efficient building code or amendment that is equivalent to or more stringent than the 2006 International Energy Conservation Code; and*

iii) *a municipality with a population of 1,000,000 or more.*

2) *No unit of local government, including any home rule unit or unit of local government that is subject to State regulation under the Code as provided in 20 ILCS 3125/15 may enact any annexation ordinance or resolution, or require or enter into any annexation agreement, that imposes energy efficient building standards for residential buildings that are either less or more stringent than the energy efficiency standards in effect, at the time of construction, throughout the unit of local government. [20 ILCD 3125/45]*

(Source: Added at 34 Ill. Reg. 11398, effective July 26, 2010)

Section 1060.APPENDIX A Supplanted and Additional 2012~~5~~ International Energy Conservation Code Sections

The following Code sections shall be referenced in place of the corresponding 2012~~5~~ IECC sections.

**CHAPTER 1 [CE]
SCOPE AND ADMINISTRATION**

**SECTION C101
SCOPE AND GENERAL REQUIREMENTS**

C101.1 Title. ~~This Code shall be known as the Illinois Energy Conservation Code or this Code and shall mean:~~

~~With respect to the State facilities covered by 71 Ill. Adm. Code 600.Subpart B:~~

~~This Part, all additional requirements incorporated within Subpart B (including ASHRAE 90.1 Standards, including all published errata and excluding published supplements that encompass ASHRAE 90.1), and any statutorily authorized adaptations to the incorporated standards adopted by CDB are effective January 29, 2010.~~

~~With respect to the privately funded commercial facilities covered by 71 Ill. Adm. Code 600.Subpart C:~~

~~This Part, all additional requirements incorporated within Subpart C (including the 2012 International Energy Conservation Code, including all published errata and excluding published supplements that encompass ASHRAE 90.1), and any statutorily authorized adaptations to the incorporated standards adopted by CDB are effective January 29, 2010.~~

C101.1.2 Adoption. ~~The Board shall adopt this Code within 12 months after its publication. This Code shall take effect within 6 months after it is adopted by the Board and shall apply to any new building or structure in this State for which a building permit application is received by a municipality or county, except as otherwise provided by the EEB Act.~~

C101.1.3 Adaptation. ~~The Board may appropriately adapt the International Energy Conservation Code to apply to the particular economy, population distribution, geography and climate of the State and construction within the State, consistent with the public policy objectives of the EEB Act.~~

C101.5 Compliance. ~~Commercial buildings shall meet the provisions of the Illinois Energy Conservation Code covered by 71 Ill. Adm. Code 600.Subpart C. The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code. Minimum compliance shall be demonstrated by submission of:~~

- ~~1. The compliance forms published in the ASHRAE 90.1 User's Manual; or~~

2. ~~Compliance Certificates generated by the U.S. Department of Energy's COMCheck Code compliance tool; or~~
3. ~~Other comparable compliance materials that meet or exceed, as determined by the AHJ, the compliance forms published in the ASHRAE 90.1 User's Manual or the U.S. Department of Energy's COMcheck code compliance tool; or~~
4. ~~The seal of the architect/engineer as required by Section 14 of the Illinois Architectural Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].~~

~~**C102.1.1 Above Code Program.** No unit of local government, including any home rule unit, may apply energy efficient building standards to privately funded commercial facilities in a manner that is less stringent than this Code as described in Subpart C. However, nothing in the EEB Act or that Subpart prevents a unit of local government from adopting an energy efficiency code or standards that are more stringent than the Illinois Energy Conservation Code. The requirements identified as "mandatory" in Chapter 4 shall be met.~~

~~SECTION C109 BOARD OF APPEALS~~

~~**C109.1 General.** In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this Code, there may be created a board of appeals. The code official shall be an ex officio member of the board of appeals but shall have no vote on any matter before the board. The board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the code official.~~

~~**C109.3 Qualifications.** The board of appeals shall consist of members who are qualified by experience and training.~~

~~CHAPTER 2 [CE] DEFINITIONS~~

~~SECTION C202 GENERAL DEFINITIONS~~

~~"**Authority Having Jurisdiction**" or "**AHJ**"—means the organization, officer or individual responsible for approving equipment, materials, an installation or procedure.~~

~~"**Board**"—means the Illinois Capital Development Board.~~

~~"**Council**"—means the Illinois Energy Conservation Advisory Council whose purpose is to recommend modifications to the *Illinois Energy Conservation Code*.~~

~~"EEB Act" means the Energy Efficient Building Act [20 ILCS 3125].~~

~~CHAPTER 1 [RE]
SCOPE AND ADMINISTRATION~~

~~SECTION R101
SCOPE AND GENERAL REQUIREMENTS~~

~~**R101.1 Title.** This Code shall be known as the Illinois Energy Conservation Code or this Code, and shall mean:~~

~~With respect to the residential buildings covered by 71 Ill. Adm. Code 600.Subpart D:~~

~~This Part, all additional requirements incorporated within Subpart D (including the 2012 International Energy Conservation Code, including all published errata but excluding published supplements) and any statutorily authorized adaptations to the incorporated standards adopted by CDB are effective January 29, 2010.~~

~~**R101.1.2 Adoption.** The Board shall adopt this Code within 12 months after its publication. This Code shall take effect within 6 months after it is adopted by the Board and shall apply to any new building or structure in this State for which a building permit application is received by a municipality or county, except as otherwise provided by the EEB Act.~~

~~**R101.1.3 Adaptation.** The Board may appropriately adapt the International Energy Conservation Code to apply to the particular economy, population distribution, geography, and climate of the State and construction within the State, consistent with the public policy objectives of the EEB Act.~~

~~**R101.4.3 Additions, Alterations, Renovations or Repairs.** Additions, alterations, renovations or repairs to an existing building, building system or portion of a building shall conform to the provisions of this Code as they relate to new construction without requiring the unaltered portion of the existing building or building system to comply with this Code. In the case of any addition, alteration, renovation or repair to an existing residential structure, this Code applies only to the portions of the structure that are being added, altered, renovated or repaired. (See 20 ILCS 3125/20(a).) Additions, alterations, renovations or repairs shall not create unsafe or hazardous conditions or overload existing building systems. An addition shall be deemed to comply with this Code if the addition alone complies or if the existing building and addition comply with this Code as a single building.~~

~~**Exception:** The following need not comply provided the energy use of the building is not increased:~~

- ~~1. Storm windows installed over existing fenestration.~~
- ~~2. Glass only replacements in an existing sash and frame.~~
- ~~3. Existing ceiling, wall or floor cavities exposed during construction, provided that these cavities are filled with insulation.~~

4. ~~Construction with the existing roof, wall or floor cavity not exposed.~~
5. ~~Reroofing for roofs where neither the sheathing nor the insulation is exposed. Roofs without insulation in the cavity and with the sheathing or insulation exposed during reroofing shall be insulated either above or below the sheathing.~~
6. ~~Replacement of existing doors that separate conditioned space from the exterior shall not require the installation of a vestibule or revolving door; provided, however, that an existing vestibule that separates a conditioned space from the exterior shall not be removed.~~
7. ~~Alterations that replace less than 50 percent of the luminaires in a space, provided that the alterations do not increase the installed interior lighting power.~~
8. ~~Alterations that replace only the bulb and ballast within the existing luminaires in a space, provided that the alteration does not increase the installed interior lighting power.~~

~~**R101.5 Compliance.** Residential buildings shall meet the provisions of the Illinois Energy Conservation Code covered by 71 Ill. Adm. Code 600.Subpart D. The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code. Minimum compliance shall be demonstrated by submission of:~~

1. ~~Compliance Certificates generated by the U.S. Department of Energy's RESCheck Code compliance tool; or~~
2. ~~Other comparable compliance materials that meet or exceed, as determined by the AHJ, U.S. Department of Energy's RESCheck code compliance tool; or~~
3. ~~The seal of the architect/engineer as required by Section 14 of the Illinois Architectural Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].~~

**SECTION R102
ALTERNATIVE MATERIALS—METHOD
OF CONSTRUCTION, DESIGN
OR INSULATING SYSTEMS**

~~**R102.1.1 Above Code Programs.** No unit of local government, including any home rule unit, may regulate energy efficient building standards for residential buildings in a manner that is either less or more stringent than the standards established pursuant to this Code. The requirements identified as "mandatory" in Chapter 4 shall be met.~~

~~However, the following entities may regulate energy efficient building standards for residential buildings in a manner that is more stringent than the provisions contained in this Code:~~

1. ~~A unit of local government, including a home rule unit, that has, on or before May 15, 2009, adopted or incorporated by reference energy efficient building standards for residential buildings that are equivalent to or more stringent than the 2006 International Energy Conservation Code;~~
2. ~~A unit of local government, including a home rule unit, that has, on or before May 15, 2009, provided to the Capital Development Board, as required by Section 55 of the Illinois Building Commission Act, an identification of an energy efficient building code or amendment that is equivalent to or more stringent than the 2006 International Energy Conservation Code; and~~
3. ~~A municipality with a population of 1,000,000 or more.~~

**SECTION R109
BOARD OF APPEALS**

~~**R109.1 General.** In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this Code, there may be created a board of appeals. The code official shall be an ex officio member of the board of appeals but shall have no vote on any matter before the board. The board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the code official.~~

~~**R109.3 Qualifications.** The board of appeals shall consist of members who are qualified by experience and training.~~

**CHAPTER 2 [RE]
DEFINITIONS**

**SECTION R202
GENERAL DEFINITIONS**

~~"**Authority Having Jurisdiction**" or "AHJ" means the organization, officer or individual responsible for approving equipment, materials, an installation or procedure.~~

~~"**Board**" means the Illinois Capital Development Board.~~

~~"**Council**" means the Illinois Energy Conservation Advisory Council whose purpose is to recommend modifications to the Illinois Energy Conservation Code.~~

~~"**EEB Act**" means the Energy Efficient Building Act [20 ILCS 3125].~~

~~"**Local Exhaust**" means an exhaust system that uses one or more fans to exhaust air from a specific room or rooms within a dwelling.~~

~~"**Residential Building**" means a detached one family or 2 family dwelling or any building that is 3 stories or less in height above grade that contains multiple dwelling units, in which the occupants reside~~

on a primarily permanent basis, such as a townhouse, a row house, an apartment house, a convent, a monastery, a rectory, a fraternity or sorority house, a dormitory and a rooming house; provided, however, that when applied to a building located within the boundaries of a municipality having a population of 1,000,000 or more, the term "residential building" means a building containing one or more dwelling units, not exceeding 4 stories above grade, where occupants are primarily permanent.

~~"Whole House Mechanical Ventilation System" means an exhaust system, supply system or combination thereof that is designed in accordance with Section R403.5 to mechanically exchange indoor air for outdoor air when operating continuously or through a programmed intermittent schedule to satisfy the whole house ventilation rate. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.~~

~~CHAPTER 4 [RE] RESIDENTIAL ENERGY EFFICIENCY~~

~~SECTION R402 BUILDING THERMAL ENVELOPE~~

~~**R402.2.8 Basement Walls.** Walls associated with conditioned basements shall be insulated from the top of the basement wall down to 4 feet (1219 mm) below grade or to the basement floor, whichever is less. Walls associated with unconditioned basements shall meet this requirement unless the floor overhead is insulated in accordance with Sections R402.1.1 and R402.2.7.~~

~~**R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour (ACH) in Climate Zones 4 and 5. The building or dwelling unit shall be provided with a whole house mechanical ventilation system as designed in accordance with Section R403.5. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). When required by the code official, a testing shall be conducted by an approved third party. A written report of the results of the test, indicating the ACH, shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after all penetrations of the building thermal envelope have been sealed. During testing:~~

- ~~1. Exterior windows and doors and fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;~~
- ~~2. Dampers, including exhaust, intake, makeup air, backdraft and flue dampers, shall be closed but not sealed beyond intended infiltration control measures;~~
- ~~3. Interior doors, if installed at the time of the test, shall be open;~~
- ~~4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;~~
- ~~5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and~~
- ~~6. Supply and return registers, if installed at the time of the test, shall be fully open.~~

~~R402.4.1.3 Visual Inspection Option for Additions, Alterations, Renovations or Repairs.~~ Building envelope tightness and insulation installation shall be considered acceptable when the items in Table R402.4.1.1, applicable to the method of construction, are field verified. When required by the code official, an approved third party, independent from the installer, shall inspect air barrier and insulation installation.

~~R403.5 Mechanical Ventilation (Mandatory).~~ The building shall be provided with ventilation that meets the requirements of this Section or the International Mechanical Code, as applicable. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

~~R403.5.2 Recirculation of Air.~~ Exhaust air from bathrooms and toilet rooms shall not be recirculated within a residence or to another dwelling unit and shall be exhausted directly to the outdoors. Exhaust air from bathrooms and toilet rooms shall not discharge into an attic, crawl space or other areas inside the building.

~~R403.5.3 Whole-house Mechanical Ventilation System.~~ Whole-house mechanical ventilation systems shall be designed in accordance with Sections R403.5.4 through R403.5.6.

~~R403.5.4 System Design.~~ The whole-house ventilation system shall consist of one or more supply or exhaust fans, or a combination, and associated ducts and controls. Local exhaust or supply fans are permitted to serve as such a system. Outdoor air ducts connected to the return side of an air handler shall be considered to provide supply ventilation.

~~R403.5.5 System Controls.~~ The whole-house mechanical ventilation system shall be provided with controls that enable manual override.

~~R403.5.6 Mechanical Ventilation Rate.~~ The whole-house mechanical ventilation system shall provide outdoor air at a continuous rate of not less than that determined in accordance with Table R403.5.6(1).

~~Exception:~~ The whole-house mechanical ventilation system is permitted to operate intermittently when the system has controls that enable operation for not less than 25 percent of each 4-hour segment and the ventilation rate prescribed in Table R403.5.6(1) is multiplied by the factor determined in accordance with Table R403.5.6(2).

~~R403.5.7 Local exhaust rates.~~ Local exhaust systems shall be designed to have the capacity to exhaust the minimum air flow rate determined in accordance with Table R403.5.7.

**TABLE R403.5.7
MINIMUM REQUIRED LOCAL EXHAUST RATES FOR
ONE- AND TWO-FAMILY DWELLINGS**

AREA TO BE EXHAUSTED	EXHAUST RATES
Kitchens	100 cfm intermittent or 25 cfm continuous
Bathrooms Toilet Rooms	Mechanical exhaust capacity of 50 cfm

	intermittent or 20 cfm continuous
--	-----------------------------------

For SI: 1 cubic foot per minute = 0.0004719 m³/s.

TABLE R403.5.6(1)
CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION
SYSTEM AIRFLOW RATE REQUIREMENTS

DWELLING UNIT FLOOR AREA (square feet)	NUMBER OF BEDROOMS				
	0-1	2-3	4-5	6-7	>7
	Airflow in CFM				
<1,500	30	45	60	75	90
1,501-3,000	45	60	75	90	105
3,001-4,500	60	75	90	105	120
4,501-6,000	75	90	105	120	135
6,001-7,500	90	105	120	135	150
>7,500	105	120	135	150	165

For SI: 1 square foot = 0.0929 m², 1 cubic foot per minute = 0.0004719 m³/s.

TABLE R403.5.6(2)
INTERMITTENT WHOLE-HOUSE MECHANICAL
VENTILATION RATE FACTORS^{a,b}

RUN-TIME PERCENTAGE IN EACH 4-HOUR SEGMENT	25%	33%	50%	66%	75%	100%
Factor ^a	4	3	2	1.5	1.3	1.0

^a—For ventilation system run time values between those given, the factors are permitted to be determined by interpolation.

^b—Extrapolation beyond the table is prohibited.

SECTION R405
SIMULATED PERFORMANCE ALTERNATIVE
(PERFORMANCE)

REVISE Table R405.5.2(1), entry for "air exchange rate" as follows:

STANDARD REFERENCE DESIGN. Air leakage rate of 5 air changes per hour in Climate Zones 4 and 5 at a pressure of 0.2 inches w.g. (50 Pa). The mechanical ventilation rate shall be in addition to the air leakage rate and the same as in the proposed design, but no greater than $0.01 \times CFA + 7.5 \times (Nbr + 1)$ where:

CFA = conditioned floor area

Nbr = number of bedrooms

Energy recovery shall not be assumed for mechanical ventilation.

(Source: ~~Added at 37 Ill. Reg. 789, effective January 11, 2013~~)

CHAPTER 1 [CE] SCOPE AND ADMINISTRATION

SECTION C101 SCOPE AND GENERAL REQUIREMENTS

C101.1 Title. This code shall be known as the *Illinois Energy Conservation Code* or “this code” and shall mean:

With respect to the State facilities covered by Subpart B of Title 71 Ill. Adm. Code 600:

This Part, all additional requirements incorporated within Subpart B (including ASHRAE 90.1 Standards, including all published errata and excluding published supplements which encompasses ASHRAE 90.1-2013), and any statutorily authorized adaptations to the incorporated standards adopted by CDB are effective November 30, 2015.

With respect to the privately funded commercial facilities covered by Subpart C of Title 71 Ill. Adm. Code 600:

This Part, all additional requirements incorporated within Subpart C (including the 2015 International Energy Conservation Code, including all published errata and excluding published supplements which encompasses ASHRAE 90.1-2013), and any statutorily authorized adaptations to the incorporated standards adopted by CDB are effective November 30, 2015.

C101.1.2 Adoption. The Board shall adopt the code within 12 months after its publication. The code shall take effect within 6 months after it is adopted by the Board and shall apply to any new building or structure in this State for which a building permit application is received by a municipality or county, except as otherwise provided by the EEB Act.

C101.1.3 Adaptation. The Board may appropriately adapt the International Energy Conservation Code to apply to the particular economy, population distribution, geography, and climate of the State and construction therein, consistent with the public policy objectives of the EEB Act.

C101.5 Compliance. Commercial buildings shall meet the provisions of the Illinois Energy Conservation Code covered by subpart C of Title 71 Ill. Adm. Code 600. The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code. Minimum compliance shall be demonstrated by submission of:

1. Compliance forms published in the ASHRAE 90.1 User's Manual; or

2. Compliance Certificates generated by the U.S. Department of Energy’s COMCheck code compliance tool; or
3. Other comparable compliance materials that meet or exceed C101.5.1 or C101.5.2, as determined by the AHJ.; or
4. The seal of the architect/engineer as required by Section 14 of the Illinois Architectural Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

C102.1.1 Above code programs. No unit of local government, including any home rule unit, may apply energy efficient building standards to privately funded commercial facilities in a manner that is less stringent than the code as described in subpart C of Title 71 Ill. Adm. Code 600. However, nothing in the EEB Act or Subpart C prevents a unit of local government from adopting an energy efficiency code or standards that are more stringent than this code. The requirements identified as “mandatory” in Chapter 4 shall be met.

SECTION C109 **BOARD OF APPEALS**

C109.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this code, there may be created a board of appeals. The code official shall be an ex officio member of said board but shall not have a vote on any matter before the board. The board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business, and shall render all decisions and findings in writing to the appellant with a duplicate copy to the code official.

C109.3 Qualifications. The board of appeals shall consist of members who are qualified by experience and training.

CHAPTER 2 [CE] DEFINITIONS

SECTION C202 **GENERAL DEFINITIONS**

AUTHORITY HAVING JURISDICTION or AHJ. Means the organization, officer or individual responsible for approving equipment, materials, an installation or procedure.

BOARD. Means the Illinois Capital Development Board

COUNCIL. Means the Illinois Energy Conservation Advisory Council whose purpose is to recommend modifications to the *Illinois Energy Conservation Code*.

EEB ACT. Means the Energy Efficient Building Act [20ILCS 3125]

CHAPTER 4 [CE] COMMERCIAL ENERGY EFFICIENCY

SECTION C402 BUILDING ENVELOPE REQUIREMENTS

C402.2.2 Roof assembly. The minimum thermal resistance (R -value) of the insulating material installed either between the roof framing or continuously on the roof assembly shall be as specified in Table C402.1.3, based on construction materials used in the roof assembly. Skylight curbs shall be insulated to the level of roofs with insulation entirely above deck or R -5, whichever is less.

Exceptions:

1. Continuously insulated roof assemblies where the thickness of insulation varies 1 inch (25 mm) or less and where the area-weighted U -factor is equivalent to the same assembly with the R -value specified in Table C402.1.3.
2. Where tapered insulation is used with insulation entirely above deck, the R -value where the insulation thickness varies 1 inch (25 mm) or less from the minimum thickness of tapered insulation shall comply with the R -value specified in Table C402.1.3.
3. Unit skylight curbs included as a component of a skylight listed and labeled in accordance with NFRC 100 shall not be required to be insulated.
4. For roofs on existing buildings with slope less than 2.5" in 12", refer to Section C503.1, exceptions.
5. For roofs on existing buildings, refer to Section C503.1 or C504.2.

Insulation installed on a suspended ceiling with removable ceiling tiles shall not be considered part of the minimum thermal resistance of the roof insulation.

C402.5.1 Air barriers. A continuous air barrier shall be provided throughout the building thermal envelope. The air barriers shall be permitted to be located on the inside or outside of the building envelope, located within the assemblies composing the envelope, or any combination thereof. The air barrier shall comply with Sections C402.5.1.1 and C402.5.1.2. For roof air barriers on existing buildings, refer to Section C503.1 or C504.2.

Exception: Air barriers are not required in buildings located in *Climate Zone 2B*.

C402.5.1.1 Air barrier construction. The continuous air barrier shall be constructed to comply with the following:

1. The air barrier shall be continuous for all assemblies that are the thermal envelope of the building and across the joints and assemblies.

2. Air barrier joints and seams shall be sealed, including sealing transitions in places and changes in materials. The joints and seals shall be securely installed in or on the joint for its entire length so as not to dislodge, loosen or otherwise impair its ability to resist positive and negative pressure from wind, stack effect and mechanical ventilation.
3. Penetrations of the air barrier shall be caulked, gasketed or otherwise sealed in a manner compatible with the construction materials and location. Paths for air leakage from the building to the space between the roof deck and roof covering used air barrier, shall be caulked, gasketed or otherwise covered with a moisture vapor-permeable material. Joints and seals associated with penetrations shall be sealed in the same manner or taped or covered with moisture vapor-permeable wrapping material. Sealing materials shall be appropriate to the construction materials being sealed and shall be securely installed around the penetration so as not to dislodge, loosen or otherwise impair the penetrations' ability to resist positive and negative pressure from wind, stack effect and mechanical ventilation. Sealing of concealed fire sprinklers, where required, shall be in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.
4. Recessed lighting fixtures shall comply with Section C402.5.7. Where similar objects are installed that penetrate the air barrier, provisions shall be made to maintain the integrity of the air barrier.

CHAPTER 5 [CE] EXISTING BUILDINGS

SECTION C503 ALTERATIONS

C503.1 General. Alterations to any building or structure shall comply with the requirements of this code for new construction. Alterations shall be such that the existing building or structure is no less conforming to the provisions of this code than the existing building or structure was prior to the alteration. Alterations to an existing building, building system or portion thereof shall conform to the provisions of this code as those provisions relate to new construction without requiring the unaltered portions of the existing building or building system to comply with this code. Alterations shall not create an unsafe or hazardous condition or overload existing building systems.

Alterations complying with ANSI/ASHRAE/IESNA 90.1, need not comply with Sections C402, C403, C404 and C405.

Exception: The following alterations need not comply with the requirements for new construction, provided the energy use of the building is not increased:

1. Storm windows installed over existing fenestration.
2. Surface-applied window film installed on existing single-pane fenestration assemblies reducing solar heat gain, provided the code does not require the glazing or fenestration to be replaced.

3. Existing ceiling, wall or floor cavities exposed during construction, provided that these cavities are filled with insulation.
4. Construction where the existing roof, wall or floor cavity is not exposed.
5. Roof recover.
6. Air barriers shall not be required for roof recover and roof replacement where the alterations or renovations to the building do not include alterations, renovations or repairs to the remainder of the building envelope.

CHAPTER 1 [RE] SCOPE AND ADMINISTRATION

SECTION R101 SCOPE AND GENERAL REQUIREMENTS

R101.1 Title. This code shall be known as the *Illinois Energy Conservation Code* or “this code”, and shall mean:

With respect to the residential buildings covered by Subpart D of Title 71 Ill. Adm. Code 600:

This Part, all additional requirements incorporated within Subpart D (including the 2015 International Energy Conservation Code, including all published errata excluding published supplements) and any statutorily authorized adaptations to the incorporated standards adopted by CDB is effective November 30, 2015.

R101.1.2 Adoption. The Board shall adopt the code within 12 months after its publication. The code shall take effect within 6 months after it is adopted by the Board and shall apply to any new building or structure in this State for which a building permit application is received by a municipality or county, except as otherwise provided by the EEB Act.

R101.1.3 Adaptation. The Board may appropriately adapt the International Energy Conservation Code to apply to the particular economy, population distribution, geography, and climate of the State and construction therein, consistent with the public policy objectives of the EEB Act.

R101.5 Compliance. Residential buildings shall meet the provisions of the *Illinois Energy Conservation Code* covered by subpart D of Title 71 Ill. Adm. Code 600. The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code. Minimum compliance shall be demonstrated by submission of:

1. Compliance Certificates generated by the U.S. Department of Energy’s RESCheck™ code compliance tool; or
2. Other comparable compliance materials that meet or exceed R101.5.1, as determined by the AHJ; or
3. The seal of the architect/engineer as required by Section 14 of the Illinois Architectural Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325]

SECTION R102 ALTERNATIVE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION AND EQUIPMENT

R102.1.1 Above code programs. No unit of local government, including any home rule unit, may regulate energy efficient building standards for residential building in a manner that is either less or more stringent than the standards established pursuant to this code. The requirements identified as “mandatory” in Chapter 4 shall be met.

However, the following entities may regulate energy efficient building standards for residential buildings in a manner that is more stringent than the provisions contained in this code:

- i) A unit of local government, including a home rule unit, that has, on or before May 15, 2009, adopted or incorporated by reference energy efficient building standards for residential buildings that are equivalent to or more stringent than the 2006 International Energy Conservation Code;
- ii) A unit of local government, including a home rule unit, that has, on or before May 15, 2009, provided to the Capital Development Board, as required by Section 55 of the Illinois Building Commission Act, an identification of an energy efficient building code or amendment that is equivalent to or more stringent than the 2006 International Energy Conservation Code; and
- iii) A municipality with a population of 1,000,000 or more.

SECTION R109 **BOARD OF APPEALS**

R109.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this code, there may be created a board of appeals. The code official shall be an ex officio member of said board but shall not have a vote on any matter before the board. The board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business, and shall render all decisions and findings in writing to the appellant with a duplicate copy to the code official.

R109.3 Qualifications. The board of appeals shall consist of members who are qualified by experience and training.

CHAPTER 2 [RE] DEFINITIONS

SECTION R202 **GENERAL DEFINITIONS**

AUTHORITY HAVING JURISDICTION or AHJ. Means the organization, officer or individual responsible for approving equipment, materials, an installation or procedure.

BOARD. Means the Illinois Capital Development Board.

COUNCIL. Means the Illinois Energy Conservation Advisory Council whose purpose is to recommend modifications to the *Illinois Energy Conservation Code*.

EEB ACT. Means the Energy Efficient Building Act [20ILCS 3125]

LOCAL EXHAUST. An exhaust system that uses one or more fans to exhaust air from a specific room or rooms within a dwelling.

RESIDENTIAL BUILDING. Means a detached one-family or two-family dwelling or any building that is 3 stories or less in height above grade that contains multiple dwelling units, in which the occupants reside on a primarily permanent basis, such as a townhouse, a row house, an apartment house, a convent, a monastery, a rectory, a fraternity or sorority house, a dormitory, and a rooming house; provided, however, that when applied to a building located within the boundaries of a municipality having a population of 1,000,000 or more, the term “RESIDENTIAL BUILDING” means a building containing one or more dwelling units, not exceeding four (4) stories above grade, where occupants are primarily permanent.

WHOLE HOUSE MECHANICAL VENTILATION SYSTEM. An exhaust system, supply system, or combination thereof that is designed in accordance with Section R403.6 to mechanically exchange indoor air with outdoor air when operating continuously or through a programmed intermittent schedule to satisfy the whole house ventilation rates. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

CHAPTER 4 [RE] RESIDENTIAL ENERGY EFFICIENCY

SECTION R401 **GENERAL**

R401.2 Compliance. Projects shall comply with one of the following:

1. Sections R401 through R404.
2. Section R405 and the provisions of Sections R401 through R404 labeled “Mandatory.”
3. With the concurrence of the *code official*, an alternative method, an energy rating index (ERI) approach in Section R406 and the provisions of Sections R401 through R404 labeled “Mandatory”.

SECTION R402 **BUILDING THERMAL ENVELOPE**

TABLE R402.1.2
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

<u>CLIMATE ZONE</u>	<u>FENES- TRATION U-FACTOR^b</u>	<u>SKYLIGHT^b U-FACTOR</u>	<u>GLAZED FENES- TRATION SHGC^{b,e}</u>	<u>CEILING R-VALUE</u>	<u>WOOD FRAME WALL R-VALUE</u>	<u>MASS WALL R-VALUEⁱ</u>	<u>FLOOR R-VALUE</u>	<u>BASEMENT^c WALL R-VALUE</u>	<u>SLAB^d R-VALUE & DEPTH</u>	<u>CRAWL SPACE^c WALL R- VALUE</u>
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13+5 ^h	8/13	19	5/13 ^f	0	5/13
4 except Marine	0.35	0.55	NR	49	20 or 13+5 ^h	8/13	19	10/13	10.2 ft	10/13

5 and Marine 4	0.32	0.55	NR	49	20 or 13+5 ^h	13/17	30 ^g	10/13	10.2 ft	15/19
6	0.32	0.55	NR	49	20+5 or 13+10 ^h	15/20	30 ^g	15/19	10.4 ft	15/19
7 and 8	0.32	0.55	NR	49	20+5 or 13+10 ^h	19/21	38 ^g	15/19	10.4 ft	15/19

**TABLE R402.1.4
EQUIVALENT U-FACTORS**

<u>CLIMATE ZONE</u>	<u>FENESTRATION U-FACTOR</u>	<u>SKYLIGHT U-FACTOR</u>	<u>CEILING U-FACTOR</u>	<u>FRAME WALL U-FACTOR</u>	<u>MASS WALL U-FACTOR</u>	<u>FLOOR U-FACTOR</u>	<u>BASEMENT WALL U-FACTOR</u>	<u>CRAWL SPACE WALL U-FACTOR</u>
5 and Marine 4	0.32	0.55	0.026	0.060	0.082	0.033	0.059	0.055

R402.2.2 Ceilings without attic spaces. Where Section R402.1.2 would require insulation levels above R-30 and the design of the roof/ceiling assembly does not allow sufficient space for the required insulation, the minimum required insulation for such roof/ceiling assemblies shall be R-30. This reduction of insulation from the requirements of Section R402.1.2 shall be limited to 500 square feet (46 m²) or 20 percent of the total insulated ceiling area, whichever is less. This reduction shall not apply to the U-factor alternative approach in Section R402.1.4 and the total UA alternative in Section R402.1.5.

Exception:

1. For roofs on existing buildings with slope less than 2.5" in 12", refer to Section R503.1.1.

R402.2.9 Basement walls. Walls associated with conditioned basements shall be insulated from the top of the basement wall down to 10 feet (3048 mm) below grade or to within six-inches (152 mm) of the basement floor, whichever is less. Walls associated with unconditioned basements shall meet this requirement unless the floor overhead is insulated in accordance with Sections R402.1.2 and R402.2.8.

Exception: Walls associated with conditioned basements may be insulated from the top of the basement wall down to 4 feet (1219 mm) below grade when the Basement Wall R-value is at least 15/19, (Basement Wall U-Factor of 0.050).

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding five air changes per hour (ACH) in Climate Zones 4 and 5. The building or dwelling unit shall be provided with a whole – house mechanical ventilation system as designed in accordance with Section R403.6. Testing shall be conducted in accordance with ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the *code official*, testing shall be conducted by an *approved* third party. A written report of the results of the test, indicating the ACH, shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after all penetrations of the *building thermal envelope* have been sealed.

Exceptions:

1. For additions, alterations, renovations or repairs to existing buildings, building envelope tightness and insulation installation shall be considered acceptable when the items in Table R402.4.1.1, applicable to the method of construction, are field verified. Where required by the *code official*, an *approved* third party independent from the installer, shall inspect both air barrier and insulation installation criteria.
2. For heated attached private garages and heated detached private garages accessory to one- and two-family dwellings and townhouses not more than three stories above grade plane in height, building envelope tightness and insulation installation shall be considered acceptable when the items in Table R402.4.1.1, applicable to the method of construction, are field verified. Where required by the *code official*, an *approved* third party independent from the installer, shall inspect both air barrier and insulation installation criteria. Heated attached private garage space and heated detached private garage space shall be thermally isolated from all other habitable, conditioned spaces.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

R402.4.4 Rooms containing fuel-burning appliances. This section has been deleted. It is not required in Illinois.

SECTION R403

SYSTEMS

R403.6 Mechanical ventilation (Mandatory). Where the air infiltration rate of a building or *dwelling unit* is five air changes per hour or less when tested in accordance with Section R402.4.1.2, the building or *dwelling unit* shall be provided with ventilation that meets the requirements of this section or the *International Mechanical Code*, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

R403.6.2 Recirculation of air. Exhaust air from bathrooms and toilet rooms shall not be recirculated within a residence or to another *dwelling unit* and shall be exhausted directly to the outdoors. Exhaust air from bathrooms and toilet rooms shall not discharge into an *attic*, crawl space or other areas inside the building.

R403.6.3 Whole-house mechanical ventilation system. Whole-house mechanical ventilation systems shall be designed in accordance with Sections R403.6.4 through R403.6.6.

R403.6.4 System design. The whole-house ventilation system shall consist of one or more supply or exhaust fans, or a combination of such, and associated ducts and controls. Local exhaust or supply fans are permitted to serve as such a system. Outdoor air ducts connected to the return side of an air handler shall be considered to provide supply ventilation.

R403.6.5 System controls. The whole-house mechanical ventilation system shall be provided with controls that enable manual override.

R403.6.6 Mechanical ventilation rate. The whole house mechanical ventilation system shall provide outdoor air at a continuous rate of not less than that determined in accordance with Table R403.6.6(1).

Exceptions:

1. The whole-house mechanical ventilation system is permitted to operate intermittently where the system has controls that enable operation for not less than 25-percent of each 4-hour segment and the ventilation rate prescribed in Table R403.6.6(1) is multiplied by the factor determined in accordance with Table R403.6.6(2).
2. The total required outdoor air ventilation rate (Q_{tot}) shall be as specified in Table 403.6.6(1) or calculated in accordance with Equation 4-1.

$$CFM_{total} = 0.01CFA + 7.5(Nbr + 1) \quad \text{(Equation 4-1)}$$

Where:

CFM_{total} = total required ventilation rate, (cfm)
CFA = conditioned floor area of residence, (ft²)
Nbr = number of bedrooms (not to be less than 1)

R403.6.6.1 Different Occupant Density. Table R403.6.6(1) assumes two persons in a dwelling unit and an additional person for each additional bedroom. Where higher occupant densities are known, the airflow rate shall be increased by 7.5 cfm (3.5 L/s) for each additional person. Where approved by the authority having jurisdiction, lower occupant densities may be used.

R403.6.6.2 Airflow Measurement. The airflow rate required is the quantity of outdoor ventilation air supplied and/or indoor air exhausted by the whole-house mechanical ventilation system installed, and shall be measured using a flow hood, flow grid, or other airflow measuring device. Ventilation airflow of systems with multiple operating modes shall be tested in all modes designed to meet Section R403.6.6. Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test, indicating the verified airflow rate, shall be signed by the party conducting the test and provided to the code official.

R403.6.7 Local exhaust rates. Local exhaust systems shall be designed to have the capacity to exhaust the minimum air flow rate determined in accordance with Table R403.6.7.

TABLE R403.6.6(1)
CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AIRFLOW RATE

<u>DWELLING UNIT FLOOR AREA</u> <u>(square feet)</u>	<u>NUMBER OF BEDROOMS</u>				
	<u>0-1</u>	<u>2-3</u>	<u>4-5</u>	<u>6-7</u>	<u>>7</u>
	<u>Airflow in CFM</u>				
<u>< 1,500</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>
<u>1,501 - 3,000</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>
<u>3,001 - 4,500</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>
<u>4,501 - 6,000</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
<u>6,001 - 7,500</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>	<u>150</u>
<u>> 7,500</u>	<u>105</u>	<u>120</u>	<u>135</u>	<u>150</u>	<u>165</u>

For SI: 1 square foot = 0.0929 m², 1 cubic foot per minute = 0.0004719 m³/min

TABLE R403.6.6(2)
INTERMITTENT WHOLE-HOUSE MECHANICAL VENTILATION RATE FACTORS a, b

<u>RUN-TIME PERCENTAGE IN EACH 4-HOUR SEGMENT</u>	<u>25%</u>	<u>33%</u>	<u>50%</u>	<u>66%</u>	<u>75%</u>	<u>100%</u>
Factor ^d	4	3	2	1.5	1.3	1.0

TABLE R403.6.7
MINIMUM REQUIRED LOCAL EXHAUST RATES FOR ONE- AND TWO-FAMILY DWELLINGS

<u>AREA TO BE EXHAUSTED</u>	<u>EXHAUST RATES</u>
<u>Kitchens</u>	<u>100 cfm intermittent or 25 cfm continuous</u>
<u>Bathrooms-Toilet Rooms</u>	<u>Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous</u>

For SI: 1 cubic foot per minute = 0.0004719 m³/s.

SECTION R405
SIMULATED PERFORMANCE ALTERNATIVE (PERFORMANCE)

TABLE R405.5.2(1)
SPECIFICATIONS FOR THE STANDARD REFERENCE DESIGN AND PROPOSED DESIGNS

<u>BUILDING COMPONENT</u>	<u>STANDARD REFERENCE DESIGN</u>	<u>PROPOSED DESIGN</u>
Air Exchange Rate	<p>Air leakage rate of 5 air changes per hour in climate zones 4 and 5. Testing shall be conducted in accordance with ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 inches w.g. (50 Pascal). The mechanical ventilation rate shall be in addition to the air leakage rate and the same as in the <i>proposed design</i>, but no greater than $0.01 \times CFA + 7.5 \times (N_{br} + 1)$</p> <p>where:</p> <p>$CFA$ = conditioned floor area</p> <p>N_{br} = number of bedrooms</p> <p>Energy recovery shall not be assumed for mechanical ventilation.</p>	<p>For residences that are not tested, the same air leakage rate as the standard reference design.</p> <p>For tested residences, the measured air exchange rate^a.</p> <p>The mechanical ventilation rate^b shall be in addition to the air leakage rate and shall be as proposed.</p>

SECTION 406
ENERGY RATING INDEX COMPLIANCE ALTERNATIVE

R406.1 Scope. This section establishes an alternative compliance criteria using an Energy Rating Index (ERI) analysis. For purposes of clarification, the Illinois Department of Commerce and Economic Opportunity (“Department”) declares that Section R406 of the 2015 International Energy Conservation Code affords an alternative form of compliance and is not a mandate on the Department to provide training to Section R406.

CHAPTER 5 [RE] EXISTING BUILDINGS

SECTION R502
ADDITIONS

R502.1.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the addition shall comply with Sections R403.1, R403.2, R403.3, R403.5 and R403.6.

Exception: Where ducts from an existing heating and cooling system are extended to an addition, the new and existing duct systems shall not be required to be tested in accordance with Section R403.3.3. New duct systems shall be sealed in accordance with Section R403.3.2.

SECTION R503 **ALTERATIONS**

R503.1.1 Building envelope. Building envelope assemblies that are part of the alteration shall comply with Section R402.1.2 or R402.1.4, Sections R402.2.1 through R402.2.12, R402.3.1, R402.3.2, R402.4.3 and R402.4.4.

Exception: The following alterations need not comply with the requirements for new construction provided the energy use of the building is not increased:

1. Storm windows installed over existing fenestration.
2. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation.
3. Construction where the existing roof, wall or floor cavity is not exposed.
4. Roof recover.
5. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
6. For roof replacement on existing buildings with a roof slope of less than 2" in 12", and where the roof covering is removed and insulation remains, and where the required R-value cannot be provided due to thickness limitations presented by existing rooftop conditions, (including heating, ventilating and air-conditioning equipment, low door or glazing heights, parapet heights, weep holes, and roof flashing heights not meeting the manufacturer's specifications), the maximum thickness of insulation compatible with the available space and existing uses shall be installed. Insulation used shall be minimum R-3.5 per inch. In areas where flashing may be terminated a minimum of 8" above the roof covering (including required insulation) insulation shall be a minimum of R-20.
7. R-value for roof assemblies with tapered insulation above deck with slope greater than 1/8" in 12" shall average R-20.
8. Surface-applied window film installed on existing single pane fenestration assemblies to reduce solar heat gain provided the code does not require the glazing or fenestration assembly to be replaced.

R503.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the alteration shall comply with Sections R403.1, R403.2, R403.3 and R403.6.

Exception: Where ducts from an existing heating and cooling system are extended, the new and existing duct systems shall not be required to be tested in accordance with Section R403.3.3. Altered duct systems shall be sealed in accordance with Section R403.3.2.

SECTION R504

REPAIRS

R504.2 Application. For the purposes of this code, the following shall be considered repairs:

1. Glass-only replacements in an existing sash and frame.
2. Roof repairs.
3. Insulation with new roof covering for roof slopes less than 2" in 12" inches only in areas where the tapered insulation is used above an existing roof covering to create slope between drains or upslope from obstructions to water flow.
4. Repairs where only the bulb and/or ballast within the existing luminaires in a space are replaced provided that the replacement does not increase the installed interior lighting power.

SUBJECT: *Director's Selection / Information Item*

<u>PROJECT NO.</u>	<u>FIRM/JOB DESCRIPTION</u>	<u>ESTIMATED TOTAL PROJECT COST</u>
321-055-128	Demolish Ash Silo Department of Human Services Elgin Mental Health Center, Kane County <i>Rubinos & Mesia Engineers, Inc.</i>	\$ 96,000

A/E SELECTION APPROVED BY THE EXECUTIVE DIRECTOR**BOARD MEETING DATE:** June 9, 2015**CDB PROJECT NO:** 321-055-128**PROJECT DESCRIPTION:** Demolish Ash Silo**PROJECT LOCATION:** Department of Human Services
Elgin Mental Health Center, Kane County**PROJECT AMOUNT:** \$96,000**PROJECT SCOPE OF WORK:**

The Elgin Mental Health Center is a 1,539,716 square foot, 99-building facility established in 1880.

The scope of work provides for demolishing and removing the ash silo and its supporting structure, as well as the abandoned ductwork from the adjacent chimney, its supporting structures and the silo auger. The work also includes patching the roof from the associated equipment removal. Asbestos inspection is required prior to demolition.

ARCHITECT/ENGINEER: Rubinos & Mesia 3473
200 S. Michigan Ave., Suite 1500
Chicago, IL 60604**APPROVED BY THE EXECUTIVE DIRECTOR:** May 08, 2015

FY16 CDB BOARD MEETING SCHEDULE

DATE	TIME	LOCATION
July 14, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
August 11, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
September 8, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
October 13, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
November 10, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
December 8, 2015	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
January 12, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
February 9, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
March 8, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
April 12, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
May 10, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference
June 14, 2016	11:00 a.m.	Chicago, Springfield & Collinsville video-conference